SERVICE MANUAL

COLOR MONITOR

SPECTRUM 4V SERIES (D356P/PA)

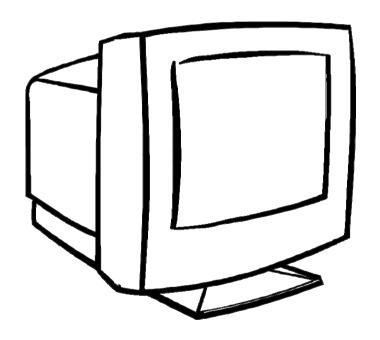




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1. SPECIFICATIONS FOR D356P COLOR MONITOR

1. CRT

35.5CM(14V) 90 Deflection, 29mm Neck, 0.28mm Dot Pitch, Non-Glare Screen

2. Viewable image Size: 33.5CM (13") diagonal

3. Display Color: Unlimited Colors

4. External Controls:

Power On/Off, UP/Down key, Function key: Contrast, Brightness, H-Size, H-center, V-Size, V-Center, Pincushion, Trapezoid, volume (for 4VA/4VnA/4VlrA only)

5. Input Video Signal

		Mode 1 RGB Analog	Mode 2 RGB Analog	Mode 3 RGB Analog	Mode 4 RGB Analog	Mode 5 RGB Analog	Mode 6 RGB Analog	Mode 7 RGB Analog
	Horiz. Sync:	TTL Level						
	·	Negative	Negative	Negative	Negative	Positive	Positive	Negative
	Vert. Sync:	TTL Level						
	•	Positive	Negative	Negative	Negative	Positive	Positive	Negative
6.	Resolution							
	Horizontal:	720 (H)	640 (H)	640 (H)	640 (H)	800 (H)	800 (H)	1024 (H)
	Vertical:	400 (V)	480 (V)	480 (V)	480(V)	600(V)	600 (V)	768 (V)
	Fh (KHz):	31.5	31.5	37.5	43.3	46.8	53.7	48.4
	Fv (Hz) :	70	60	75	85	75	85	60

7. Display Size

Horizontal: 250 mm Vertical: 187 mm

8. Scanning Frequencies

Horizontal: 30KHz ~ 54KHz Vertical: 50 Hz ~ 120 Hz

9. Factory Preset Timings: 7

User Timings: 12

10. Misconvergence

Center: 0.3 mm Max. Corner: 0.4 mm Max.

11. Video Bandwidth: 85 MHz

12. Power Source:

Switching Mode Power Supply AC 100 ~240V, 50/60Hz Universal Type

13. Operating Temperature: 0° C to 40° C Ambient

14. Humidity:

10% to 85% Relative, Non-Condensing

15. Weight: 11Kgs(Net), 12.8Kgs(Gross)

16. Dimensions Monitor:

 $438(W) \times 394(H) \times 460(D)$ mm Carton: Monitor: $350(W) \times 352(H) \times 370(D)$ mm

17. External Connection: 15 Pin D-type Connector

AC Power Cord

(for 4VA/4VnA/4VlrA only) 18. Speaker:

Rate power: 1W (per channel)

Impedance: 16Ω

19. Regulations: UL, CSA, DHHS, FCC-B, TÜV/GS, CE TÜV/MPR-II (for 4Vlr/4VlrA only)

2. PRECAUTIONS AND NOTICES

2-1 SAFETY PRECAUTIONS

- 1. Observe all caution and safety related notes located inside the display cabinet.
- 2. Operation of the display with the cover removed, may cause a serious shock hazard from the display power supply. Work on the display should not be attempted by anyone who is not thoroughly familiar with precautions necessary when working on high voltage equipment.
- 3. Do not install, remove or handle the picture tube in any manner unless shatterproof goggles are worn. People who are not so equipped should be kept away while handling picture tube. Keep picture tube away from the body while handling.
- 4. The picture tube is constructed to limit X-RAY radiation to 0.5 mR/HR. For continued protection, use the designated replacement tube only, and adjust the voltages so that the designated maximum rating at the anode will not be exceeded.
- 5. Before returning a serviced display to the customer, a thorough safety test must be performed to verify that the display is safe to operate without danger or shock. Always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as screw heads.

Test method for current leakage is described as follow.

- (a) Plug the AC line cord directly into rated AC outlet (do not use a line isolation transformer during this check).
- (b) Use an AC voltmeter having 5000 ohms per volt or with more sensitivity in the following manner: Connect a 1500 ohms 10 Watt resistor, paralleled by a 0.15UF, AC type capacitor between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts simultaneously. Measure the AC voltage across the combination of 1500 ohms resistor and 0.15UF capacitor.
- (c) Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part.
- (d) Voltage measured must not exceed 0.5 volts RMS. This corresponds to 0.35 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

2-2 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety visual inspections and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Before replacing any of these components read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-RAY radiation or other hazards.

2-3 SERVICE NOTES

- 1. When replacing parts or circuit boards, clamp the lead wires around terminals before soldering.
- 2. When replacing a high wattage resistor (more than 1/2W of metal oxide film resistor) in circuit board, keep the resistor about 10mm (1/2 in) away from circuit board.
- 3. Keep wires away from high voltage or high temperature components.
- 4. Keep wires in their original position so as to reduce interference.

2-4 HIGH VOLTAGE WARNING

Operation of monitor outside of cabinet or with back removed may cause a serious shock hazard. Work on this model should only be performed by those who are thoroughly familiar with precautions necessary when working on high voltage equipment.

Exercise care when servicing this chassis with power applied. Many B plus and high voltage terminals are exposed which, if carelessly contacted, can cause serious shock or result in damage to the chassis. Maintain interconnecting ground lead connections between chassis and picture tube dag when operating chassis.

Certain HV failures can increase X-ray radiation. Monitor should not be operated with HV levels exceeding the specified rating for the chassis type. The maximum operating HV specified for the chassis used in this monitor is

 $24.5KV \pm 1KV$

With a line voltage of 120/240 VAC. Higher voltage may also increase possibility of failure in HV supply.

It is important to maintain specified values of all components in the horizontal and high voltage circuits and anywhere else in the monitor that could cause a rise in high voltage or operating supply voltages. No changes should be made to the original design of the monitor. Components shown in the shaded areas on the schematic should be replaced with exact factory replacement parts. The use of unauthorized substitute parts may create a shock, fire or other hazard.

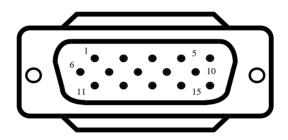
To determine the presence of high voltage, use an accurate, high impedance, HV meter connected between second anode lead and CRT dag grounding device. When servicing the High Voltage System, remove static charge from it by connecting a 10K ohm resistor in series with an insulated wire (such as a test probe) between picture tube dag and 2nd anode lead.(AC line cord disconnected from AC power outlet.)

The picture tube used in this monitor employs integral implosion protection. Replace with tube of the same type number for continue safety. Do not lift picture tube by the neck. Handle the picture tube only after discharging the high voltage completely.

3. OPERATING INSTRUCTIONS

This procedure gives you instructions for installing and using the 4V Series display.

- 1. Position the display on the desired operation and plug the power cord into a convenient AC outlet. Three-wire power cord must be shielded and is provided as a safety precaution as it connects the chassis and cabinet to the electrical conduit ground. If the AC outlet in your location does not have provisions for the grounded type plug, the installer should attach the proper adapter to ensure a safe ground potential.
- 2. Connect the 15-pin color display shielded signal cable to your signal system device and lock both screws on the connector to ensure firm grounding. The connector information is as follow:



15 - Pin Color Display Signal Cable

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	RED	9.	NC
2.	GREEN	10.	GND
3.	BLUE	11.	SYNC. GND
4.	GND	12.	SDA
5.	GND	13.	HORIZ. SYNC
6.	GND-R	14.	VERT. SYNC (*VCLK)
7.	GND-G	15.	SCL
8.	GND-B		

- 3. Apply power to the display by turning the power switch to the "ON" position and allow about thirty seconds for display tube warm-up. The Power-On indicator lights when the display is on.
- 4. With proper signals feed to the display, a pattern or data should appear on the screen, adjust the brightness and contrast to the most pleasing display.
- 5. This monitor has power saving function following the VESA DPMS. Be sure to connect the signal cable to the PC.
- 6. If your 4V Series color display requires service, it must be returned with the power cord.

4. ADJUSTMENT

4-1 ADJUSTMENT CONDITIONS AND PRECAUTIONS

- 1. Approximately 30 minutes should be allowed for warm up before proceeding.
- 2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.

4-2 MAIN ADJUSTMENTS

NO.	FUNCTION	LOCATION	DESIGNATION
1	15W ADI	DCD MAIN	VD001
1.	15V ADJ	PCB - MAIN	VR901
2.	B + ADJ	PCB - MAIN	VR902
3.	R.B. DRIVE	CRT - BOARD	VR801,802
4.	R.G.B. CUT-OFF	CRT - BOARD	VR803,804,805
5.	ABL ADJ	PCB - MAIN	VR701
6.	UP KEY	PCB - MAIN	SW101
7.	DOWN KEY	PCB - MAIN	SW102
8.	FUNCTION KEY	PCB - MAIN	SW103

4-3 ADJUSTMENT METHOD

- 1. 15V, B + & HV protection voltage adjustment:
 - A. Chroma-2000 Signal generator or PC equivalent, set mode 1(VGA 640x 480) pattern 1.
 - B. Connect a DC voltage meter between TP 901 and ground, then adjust VR901 to be 15VDC.
 - C. Connect a DC voltage meter between TP 902 and ground, then adjust VR902 to be 90 VDC.
- 2. Factory preset timings adjustment:
 - A. When you turn on the monitor, the function LEDS will light up simultaneously for a while, then extinguish.
 - B. You can press the up/func two keys simultaneously, the most left four LEDS will light up for a while then extinguish.
 - C. Then you can select one of the eight functions including Contrast, Brightness, H-SIZE, H-CENTER, V-SIZE, V-CENTER, Pincushion and Trapezoid Simply press the function key and the LED will be light up corresponding to the one selected, then press the up/down keys to get the factory presetting parameter value to your satisfaction.
 - D. Then you will press the up/function two keys simultaneously again, the most right four LEDS will light up for a while then extinguish, the factory preset timings adjustment is finished.
- 3. White balance and luminance adjustment:
 - A. Bias (low light) adjustment:
 - (a) Set mode 5 (800×600 Fh: 46.8KHz) full white pattern.
 - (b) Adjust VR801, 802, 803, 804, 805, to make VR in the center position.
 - (c) Warm up more than 20 minute.
 - (d) Brightness set to max. Contrast set to min. full white pattern, then adjust FBT screen VR to make $Y=1.0FL\pm0.2FL$
 - (e) Brightness set to raster just cutoff, contrast set to 4FL, then adjust CRT board VR805 (B-Bias) VR803 (R-Bias) to make $Y = 4 \pm 0.2$ FL, $x = 281 \pm 10$, $y = 311 \pm 10$
 - B. Gain (High light) adjustment:
 - (a) Set mode 5 (800×600 Fh: 46.8KHz) full white pattern.
 - (b) Brightness set to raster just cutoff and set the contrast to max.
 - (c) Adjust VR801, 802 to make color code $x=281 \pm 10$, $y=311 \pm 10$.
 - C. Recheck item A&B to make sure both of them in spec.

D. Full white luminance:

- (a) Set mode 5 ($800 \times 600 \text{ Fh}$: 46.8 K) full white pattern.
- (b) Image size: H:250±4mm, V:187±4mm.
- (c) Brightness set to raster just cut off and set the contrast to max.
- (d) Adjust VR701 to make sure white luminance at 25 FL.

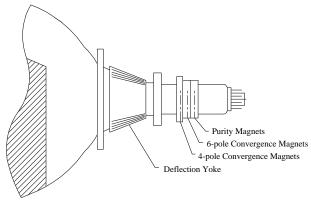
4. Focus adjustment:

- A. Set mode 2 (640x 480 Fh: 31.5KHz) with character full page.
- B. Adjust external brightness to raster cutoff and external contrast to max., then adjust focus VR to make the display be focused very well.

5. Purity adjustment

- A. Be sure that the display is not being exposed to any external magnetic fields.
- B. Ensure that the spacing between the Purity, Convergence, Magnet, (PCM), assembly and the CRT stem is 29mm .(See below diagram)
- C. Produce a complete, red pattern on the display. Adjust the purity magnet rings on the PCM assembly to obtain a complete field of the color red. This is done by moving the two tabs in such a manner that they advance in an opposite direction but at the same time to obtain the same angle between the two tabs, which should be approximately 180.
- D. Check the complete blue and complete green patterns to observe their respective color purity. make minor adjustments if needed.

RELATIVE PLACEMENT OF TYPICAL COMPONENTS



6. Convergence adjustment

- A. Produce a magenta crosshatch on the display.
- B. Adjust the focus for the best overall focus on the display. Also adjust the brightness to the desired condition.
- C. Vertical red and blue lines are converged by varying the angle between the two tabs of the 4 pole magnets on the PCM assembly. (See above diagrams)
- D. Horizontal red and blue lines are converged by varying the two tabs together, keeping the angle between them constant.
- E. Produce a white crosshatch pattern on the display.
- F. Vertical green and magenta lines are converged by varying the angle between the two tabs of the 6-pole magnets.
- G. Horizontal green and magenta lines are converged by varying the two tabs together, keeping the angle between them constant.

5. CIRCUIT DESCRIPTION

5-1 MICRO CIRCUIT

IC101 is CPU, This CPU has the following functions.

- 1. Detect timing mode by sensing the horizontal frequency, vertical frequency, the polarity of Hor. Sync and Ver. Sync.
- 2. Keyboard scan control.
- 3. Geometry and volume (4VA/4VnA/4VlrA only) control internal D/A converters and I²C bus control.
- 4. Cs capacitor switch control.
- 5. Power saving control.

When CPU detects timing, it takes data from E²PROM (IC102), then output voltage to control the geometry and volume (4VA/4VnA/4VlrA only) of this monitor.

If key is pressed, the CPU will do some job according to the key function. For example, if function key is pressed, it can change different value to control screen geometry (H-SIZE, V-SIZE...etc.)

5-2 DEFLECTION CIRCUIT

Hor. sync. and Ver. sync. come from PC, go into the CPU (IC101). The output goes to the Hor. oscillation and Ver. oscillation processor (IC401). The IC401 treats sync. Signal and output the drive signal to horizontal and vertical output circuit. IC401 also generates some functions for geometry use, like, horizontal center, vertical size, by I²C bus control, the geometry can be controlled. IC601 is a vertical output IC to supply the vertical scan. Q404, Q405, Q406 and L405 are the horizontal size controls. Q403 is the horizontal deflection output, supply the horizontal scan of the monitor. Q707 and Q601 generate the Blanking signal output to G1 of CRT. Q703 Q704 and Q705 are mute control, brightness control and G1 DC voltage output.

5-3 VIDEO CIRCUIT

IC801 is a video amplifier, clamping signal input from pin No. 11 to restore the DC voltage of video signal, the signal output from IC801 pass through IC802 Video package amplifier stage LM2439, then go to the cut off DC restore stage, The video output signal is about 40Vpp.

5-4 POWER SUPPLY

The design uses a discontinuous flyback topology operating in current-mode resulting in a multiple output switcher with stack well. Faster diodes are used. The fast transient response of the control loop maintains picture integrity. Very fast current limiting protects the switcher agains short circuits.

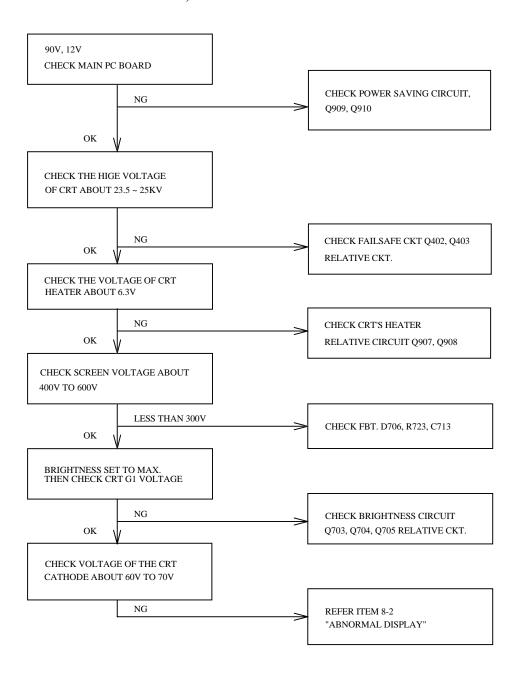
UC3842AM (IC901) is the current mode controller selected. It offers feed forward compensation, feedback error amplifier, and low voltage lock out features. The 3842 draws very little current is start up mode. There is enough power from the line bleeder to slowly charge a capacitor to the 16 volts needed to start the switcher.

The FET starts a cycle by allowing current to flow into the primary of the power transformer. As current ramps up with time, the voltage across the current sense resistor (R929) also ramps to a point where the 3842 determines that enough power is stored and turns off the FET. As the voltage on the transformer reverses, power is dumped from the main power transformer through diodes into the different supplies. To keep RFI to a minimum and reduce transistor heating, a turn-off snubber network is placed across the FET. Current from the secondary windings are rectified and filtered to freate the desired voltages. Small high current capacitors quickly return charging current to the source. Filter inductors remove high frequency noise.

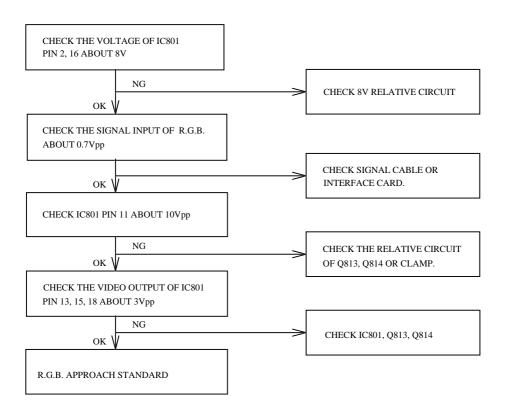
5-5 TRANSISTOR & DIODE CIRCUIT

LOCATION	CIRCUIT FUNCTION DESCRIPTION
D901 ~ D904	Bridge Rectifier for AC Source
D909	Half-Wave Rectifier for Start CKT
D910	Clamp Diode for Snubber CKT
D919	Rectifier for Output Voltage
D921	Rectifier for Output Voltage
D922	Rectifier for Output Voltage
D923	Rectifier for Output Voltage
D925	Rectifier for Output Voltage
D927	Forward Bias when Q403 Turn-off to Protect B+ Block CKT
D929	B+ Feed Back Rectifier from F.B.T Pulse
Q904	Start CKT Amplifier Transistor
Q907, Q908	Use for Off-Mode to Cut-off 6.3V Supply Voltage
Q909, Q910	Use for Standy-By or Suspend Mode to Cut-off 15V Supply Voltage
Q912, Q920	Push-Pull Topology to Drive Q911
Q401	Turn-on at Power ON/OFF and Change Mode to Protect Hor.Block
Q402	HOR. Driver Transistor
Q407, Q408	As a Switcher for H-Size Correction CKT
Q410, Q426	H-Size Corection Mosfet (Q426 15" only)
Q404, Q405	As Differential Amp. to Drive Q406
Q406	Darlington Transistor for H-Size Control
Q703	As a Switcher to Mute Screen when Abnormal Qccurring
Q704, Q705	Unit Brightness Control CKT
Q601, Q707	Develop Blanking Signal
Q813, Q814	A Amplifier to Corection and Support Clamp Signal

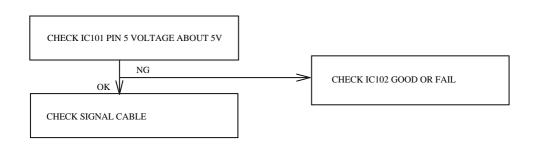
6.TROUBLE SHOOTING CHART 6-1 NO RASTER, CRT RELATIVE CIRCUIT PROBLEMS



2.ABNORMAL VIDEO LEVEL ON SCREEN

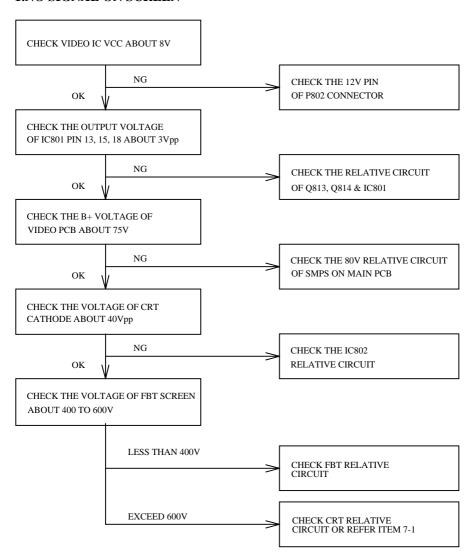


3. ABNORMAL DDC (PLUG & PLAY)

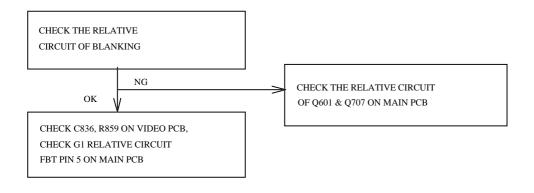


6-2 ABNORMAL DISPLAY

1.NO SIGNAL ON SCREEN

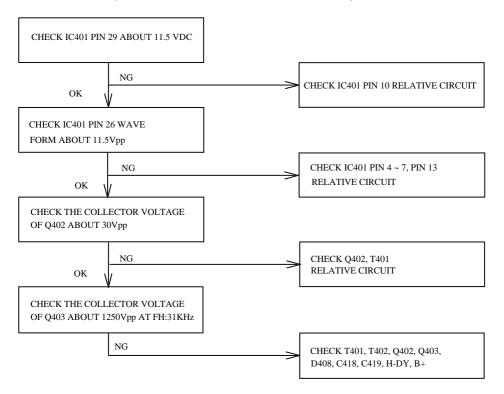


6-3 NO BLANKING



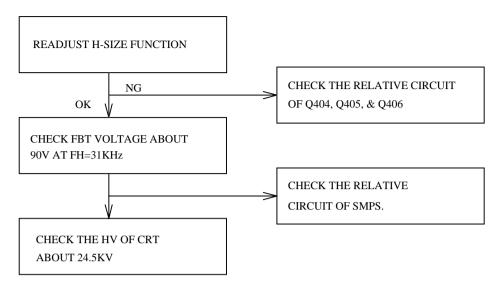
6-4 HOR./OSC/DEF/HV CIRCUIT FAULT

1. NO RASTER (DISCONNECT WITH SIGNAL CABLE)



6-5 ABNORMAL HORIZONTAL DEFLECTION

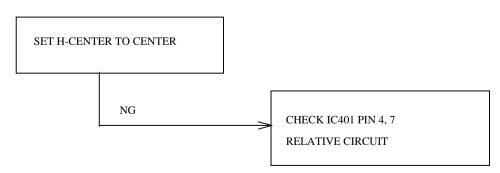
1. ABNORMAL HORIZONTAL SIZE



2. ABNORMAL HORIZONTAL RASTER CENTER

CHECK D418, D419, R457, R458, L404

3. ABNORMAL HORIZONTAL VIDEO CENTER

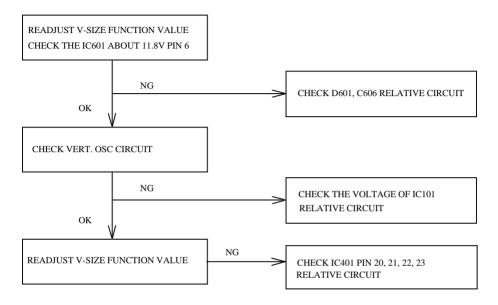


4. ABNORMAL HORIZONTAL LINEARITY

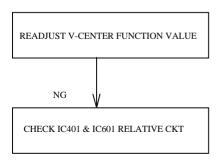
CHECK L401, Q408, Q410, C427 & DY IC101 PIN 29 (CS1)

6-6 ABNORMAL VERTICAL SCANNING

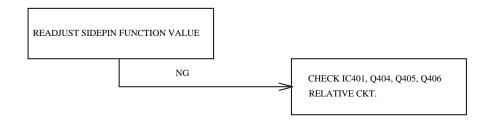
1. ABNORMAL VERTICAL SIZE



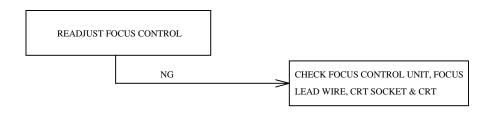
2. VERTICAL CENTER



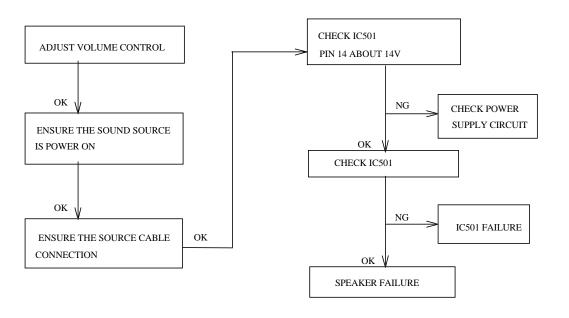
6-7 SIDE-PIN CUSHION DISTORTION



6-8 POOR FOCUS



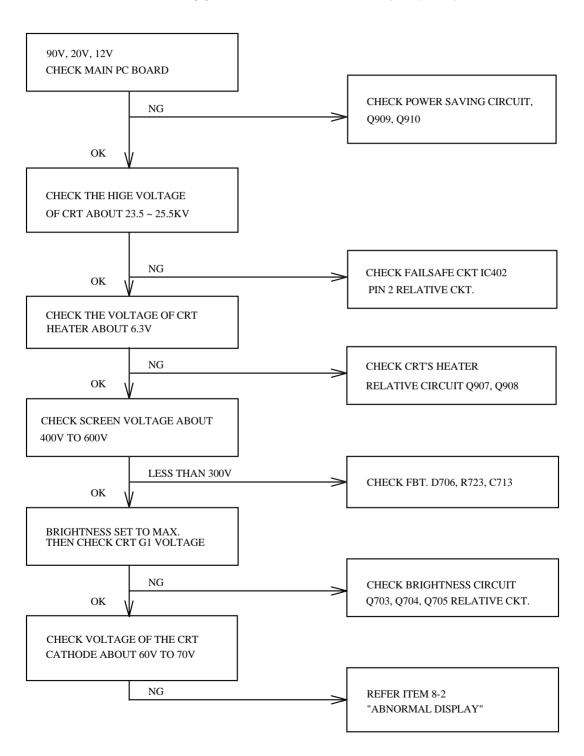
6-9 NO SOUND (FOR 5EA/5EIrA ONLY)

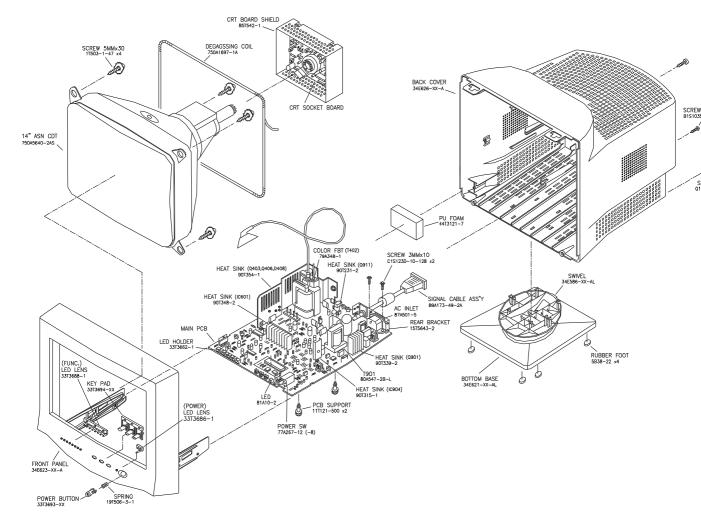


6-10 POWER SUPPLY TROUBLE SHOOTING CHART

BEFORE CHECK SW.REG. PLEASE REFER TO THE POWER SUPPLY BLOCK DIAGRAM POWER SUPPLY OUTPUT: (A) VARIABLE OUTPUT: 90V - 160V

- (D EPENDING UPON H.SYNC FREQUENCY)
- (B) CONSTANT OUTPUT: 6.3V, 15V, -12V, 75V





PARTS LIST OF CABINET

	LOCATION	D35	56P			SPECIFICATION
				NATION	J 110V)	Si Len len lion
		,	(LOW RADIATION 110V) CMC356PA			CHAS ASS'Y
		_	AUPC556NA			
		AU	PC336NA			AUDIO BOARD
		1A	503-	1 -	47	SCREW
		5A	38-	8		RUBBER WASHER
		5A	6001-	1		RUBBER WASHER
		9A	84-	23		TERMINAL LUG
		11A	112-	1		WIRE MOUNTS
		11A	6001-	1		WIRE MOUNT
		15A	5663-	500		RETAINER SPEAKER
		19A	403-	5		BUMPER STEEL SPRING
		26A	800-	504 -	1	BARCODE
			3598-	1		ABS PLASTIC
			3697-	1		KEY PAD
			3698-	1		FUNC LED LENS
		34A	625-	5 -	A	FRONT PANEL
		40A	153-	63		CRT LABEL
		40A	154-	501 -	1	HI-POT GROUNDING LABEL
		40A	581-	26 -	659	LABEL
\wedge		40A	581-	26 -	704	LABEL
/1\		40A		615 -	2C	ID LABEL
		41A	68-	563		WARRANTY CARD
		41A	68-	576	10	WARRANTY CARD
		41A	520-	615 -	1B	MANUAL
			3121-	510		PU FOAM
			6528-	1 -		EPS CUSHION
			6528-	2	2D	EPS CUSHION
			6528-	615 -	2D	CARTON
		45A	76-	28 - 500	R	PE BAG
		45A 45A	77- 88-	300 1 -	D	BARCODE RIBBON PE BAG
		71A	303-	1 - 9 -	R C	
		85A	542-	9 - 1	C	SPPILER SHIELD
		89A	171-	25A		POWER CORD
\wedge		89A	173-	56 -	4	AUDIO CABLE
/!\		95A	91-	205 -	1	WIRE
			205R-	30 -	122	WIRE
			8013-	2	122	WIRE
			1035-	10 -	128	SCREW
		Q1A	330-	10 -	128	SCREW
		Q1A	340-	16 -	128	SCREW
		-	1030-	10 -	128	SCREW
			356N-	F34 -	01	CAB'T ASS'Y
			556T-	C78 -	01	SPEAKER ASS'Y
			1697-	1G -	D	DEG. COIL UL/CSA
\wedge			5640-	2AS		.28MM/CHUNGHWA
$\angle ! $	CM1	95A	205R-	30 -	132	WIRE ASS'Y

PARTS LIST OF AUDIO BOARD

LOCATION	AUP	C556N	A	SPECIFICATION	
C507 EARPHON	67A 88A	309- 302-	101 - 5J	3T	100uF +-20% 16V PHONE JACK
H501		8013-	5 -	505	WIRE ASS'Y
P503-A	33A	3278-	4		4P PLUG
	715A	602-	2		AUDIO PCB
R590	95A	90-	23		TIN COATED
R591	95A	90-	23		TIN COATED
				21	

PARTS LIST OF CHAS

	LOCATION	CMC356PA CMP35 CRPC3	6PAAI		SPECIFICATION MAIN PC BOARD ASS'Y CRT BOARD ASS'Y
		11A 121- 15A 5640- 15A 5643- 33A 3662-	500 1 - 3	A	PC SUPPORT GND LUG BRACKET LED HOLDER
		40A 581- 40A 581- 71A 55-	1 26 - 26 - 2	684 702	FAIL-SAFE LABEL LABEL BEAD
\wedge		71A 100-	7 -	Н	FERRITE CORE FUSE
∠!\		84A 33- 89A 173- 90A 345-	10 49A - 501 -	2D 2	SIGNAL CABLE HEAT SINK
		95A 90- B1A 1030-	24 10 -	128	TIN COATED SCREW
		B1A 1040-	8 -	128	SCREW
		M1A 1140- M1A 1730-	6 -	128	SCREW
		Q1A 1135-	11 - 10 -	128 128	SCREW SCREW
		705A 356N-	C57 -	02	Q901 ASS'Y
		705A 356N-	C57 -	03	Q911 ASS'Y
		705A 356P- 705A 356P-	C56 - C57 -	01 01	IC601 ASS'Y D408/Q403/Q406 ASS'Y
		705A 356P-	C87 -	01	AC LINET INALWAYS
		705A 569D-	C56 -	02	IC904 ASS'Y
	(CNID2)	750A 5640-	356 -	ASP	CRT ASS'Y
	(GND2) (LED1)	95A 205- 81A 10-	30 - 2 -	082 S	WIRE ASS'Y LED
	(SW101)	77A 602-	1 -	HJ	TSVB-3B TACT SWITCH
	(SW102)	77A 602-	1 -	HJ	TSVB-3B TACT SWITCH
	(SW103)	77A 602-	1 -	HJ 052	TSVB-3B TACT SWITCH
	AS1 AUDIO I	95A 207T- 88A 302-	30 - 6J	052	WIRE ASS'Y AUDIO JACK
	C414	67A 305-	470 -	9	47uF +-20% 100V
	C418	63A 210J-	392 -	8FC	3900PF +-5% 2KV
	C419	63A 210J-	432 -	8FC	4300PF + -5% 2KV
	C421 C422	65A 1K- 63A 100J-	102 - 225 -	1A 59	1000PF +-10% 1KV 2.2Uf +-5% 100V
\wedge	C425	63A 210J-	334 -	3CC	0.33Uf +-5% 400V
$\angle ! $	C427	63A 210J-	364 -	2CC	0.36Uf +-5% 250V
	C431	63A 210J-	104 -	2BC	0.1Uf +-5% 250V
	C432 C440	67A 215- 65A 2K-	470 - 470 -	11J 6B	47Uf 200V JAMICON 47P 2KVF +-10% Y5U
	C441	64A 44J-	224 -	1AT	0.22Uf 100V
	C502	67A 305-	222 -	3M	2200Uf 16V
	C603 C605	67A 309- 67A 309-	471 - 221 -	3	470uF +-20% 16V 220uF +-20% 35V
	C606	67A 309-	102 -	6 3	1000uF +-20% 16V
	C709	65A 1K-	561 -	5A	560PF 10% 1KV Y5P
	C713	67A 309-	220 -	10	22uF +-20% 160V
	C714 C900	67A 305- 65A 305M-	331 - 472 -	3 2B	330Uf 20% 16V 4700PF +-20% 400VAC/250VAC
\wedge	C901	63A 107-	224 -	5S	0.22uF +-20% 250V
$\angle \Box$	C902	63A 107-	104 -	5	0.1uF +-20% 250V
	C907	67A 30-	151 -	14L	150uF +-20% 400V
	C915 C923	65A 2M- 65A 1K-	103 - 331 -	3B 5A	0.01uF +-20% 2KV Z5U 330PF 1KV
	C931	67A 305-	101 -	11J	100uF +-20% 200V
	C936	67A 305-	102 -	4	1000uF +-20% 25V
	C937	67A 305-	471 -	3	470uF + 20% 16V
	C938 C939	67A 305- 67A 305-	471 - 102 -	3	470uF +-20% 16V 1000uF +-20% 16V

	LOCATION	CMC356PA			SPECIFICATION
	C942	67A 309-	102 -	4	1000uF +-20% 25V
	C950	65A 1K-	221 -	5A	220PF +-10% Y5P 1KV
	C951	67A 215-	470 -	11J	47uF 200V JAMICON
	C955	65A 1K-	221 -	5A	220PF+-10% Y5P 1KV
\wedge	C963	65A 305M-	472 -	2B2	4700PF +-20% 400VAC/250VAC
$\angle ! $	C964	65A 305M-	472 -	2B2	4700PF +-20% 400VAC/250VAC
	CN902	33A 3074-	1		2P PLUG
	D1	93A 64-	11H -	52T	DIODE IN4148
	D901	93A 52-	41 -	52T	DIODE IN5406
	D902	93A 52-	41 -	52T	DIODE IN5406
	D903	93A 52-	41 -	52T	DIODE IN5406
	D904	93A 52-	41 -	52T	DIODE IN5406
	D919	93A 3040-	10		DIODE
	D922	93A 3020-	6 -	52T	STPR320
	D923	93A 3020-	8		RG-4Z
	F901	84A 7-	45		FUSE 2.5A 250V S-B/BEL
	H802	95A 8013-	9 -	7	HARNESS 9P-9P 370MM
	H803	95A 8013-	6 -	1	6-6P WIRE
	HS1	95A 205T-	30 -	042	WIRE
	IC101	56A 1125-	33 -	X	NT68P61A
	IC102	56A 1133-	8		8 PIN AT24C04 EEPROM
^	IC104	56A 74LS-	14 -	H	14 PIN IC 74LS14
/1\	IC401 IC501	56A 573- 56A 535-	1 1		TDA9111 TDA7057AO
	IC901	56A 379-	12		UC3842AM
	JJ1	95A 201-	69 -	012	WIRE
	L401	73A 147-	103 -	L	LINEARITY COIL
	L404	73A 253-	70		1.5MH +-5% 0.3A
	L405	73A 253-	68 -	L	180UH +-10%
	L901	73A 174-	2 -	LA	COIL 15MH MIN
	L903	73A 259-	4		200UH +-5%
	L906	73A 253-	90 -	L	CHOKE COIL
	LED2	81A 2-	3 -	2B	LED GREENBL-B2441J
	LED3	81A 2-	3 -	2B	LED GREENBL-B2441J
	LED4	81A 2-	3 -	2B	LED GREENBL-B2441J
	LED5	81A 2-	3 -	2B	LED GREENBL-B2441J
	LED6	81A 2-	3 -	2B	LED GREENBL-B2441J
	LED7 LED8	81A 2- 81A 2-	3 - 3 -	2B 2B	LED GREENBL-B2441J LED GREENBL-B2441J
	LED9	81A 2-	3 -	2B 2B	LED GREENBL-B2441J
	P401	33A 3192-	500	ΔD	2 P PLUG
	P402	33A 3192-	4		4 P PLUG
	P403	33A 8009-	3		3 P PLUG
	P503	33A 3278-	5		5 P PLUG
\triangle	NR901	61A 58-	8		NTCR 15 OHM
$\angle ! $	PR901	61A 52-	22 -	3	220VAC 14 OHM PTCR
	Q410	57A 600-	14		CEPF630
	Q705	57A 690-	1		POWER AMP. 2SB649A/HITACH
	Q907	57A 690-	2		PNP TR. BD140
	Q909	57A 728-	3	<i>c</i> 1	HSB772P/HSB772E
	R127	61A 152M-	910 -	64 50	91 OHM +-5% 2W
	R426 R428	61A 153M- 61A 153M-	220 - 688 -	59 59	22 OHM +-5% 3W 0.68 OHM +-5% 3W
	R426 R456	61A 153M-	391 -	59	390 OHM +-5% 3W
	R457	61A 153M-	330 -	59	33 OHM +-5% 3W
	R458	61A 153M-	560 -	59	56 OHM +-5% 3W
	R461	61A 153M-	151 -	59	150 OHM +-5% 3W
	R501	61A 153M-	339 -	59	3.3 OHM 3W
	R509	61A 153M-	339 -	59	3.3 OHM 3W
	R510	61A 153M-	339 -	59	3.3 OHM 3W
	R607	61A 208-	918 -	64	0.91 OHM +-5% 1W
	R608	61A 152M-	100 -	64	10 OHM +-5% 2W
^	R723	61A 152M-	101 -	64	100 OHM +-5% 2W
/ <u>!</u> \	R927	61A 153M-	333 -	59 CP1	33K OHM +-5% 3W
	R929 R955	61A 20K- 61A 303-	338 - 228 -	GB1 64	0.33 OHM +-10% 2W 0.22 OHM +-5% 1W
	R989	61A 152M-	471 -	64	470 OHM +-5% 2W
		JIII 132IVI	1/1	J-1	170 01111 3/0 211

LOCATION	CMC356PA	SPECIFICATION
SS1	95A 207T- 30 - 052	WIRE
SW901	77A 267- 12 - HJ	PWR SW
T401	79A 167- 71A	DRIVER X'FMR
T402	79A 355 4 - A	FBT
T901	80A 356T 1 - L	POWER X'FMR
TP902	9A 211- 2	PIN
VR701	75A 335- 473	47K OHM +-30%
VR702	75A 335M- 204 - H	200K OHM METAL VR
VR901	75A 335- 101	100 OHM +-30%
VR902	75A 335- 223	22K OHM +-30%
X101	93A 22- 22	8.0000 MHZ/S.P.K.

PARTS LIST OF MAIN PC BOARD

LOCATION	CMP356P.	AAI		SPECIFICATION
	6A 31-	4		BRASS
	715A 684-	G		MAIN BOARD
C103	65A 450-	104 -	7T	0.1uF +80-20% Y5V 50V
C104	67A 309-	101 -	4T	100uF +-20% 25V
C105	65A 450-	104 -	7T	0.1uF +80-20% Y5V 50V
C106	67A 309-	330 -	7T	33uF +-20% 50V
C109	67A 60-	229 -	7T	2.2uF /50V
C110	67A 309-	109 -	7T	1.0Uf +-20% 50V
C113	67A 309-	101 -	4T	100Uf +-20% 25V
C130	65A 442-	100 -	13T	10PF +-5% 50V NPO
C160	65A 444-	101 -	5T	100 PF 10% 50V Y5P
C162	65A 444-	102 -	13T	1000 PF 10% 50V Z5P
C163	65A 444-	101 -	5T	100 PF 10% 50V Y5P
C164	65A 450-	104 -	7T	0.1uF +80-20% Y5V 50V
C403	64A 44J-	223 -	1AT	0.22uF +-2% 100V
C405	67A 309-	470 -	3T	47uF +-20% 16V
C406	65A 450-	104 -	7T	0.1uF +80-20% Y5V 50V
C407	65A 444-	101 -	5T	100 PF 10% 50V Y5P
C408	65A 444-		5T	100 PF 10% 50V Y5P
C410	65A 450-	104 -	7T	0.1uF +80-20% Y5V 50V
C411	67A 309-	470 -	3T	47uF +-20% 16V
C412	65A 442-	221 -	13T	220PF +-5% 50V
C413	65A 450-	104 -	7T	0.1uF +80-20% Y5V 50V
C415	64A 176J-		1T	0.001uF +-5% 100V
C417	64A 176J-		OT	0.15uF +-5% 63/50V
C423	65A 444-		5T	3300 PF 10% 50V Y5P
C430	95A 90-	23		TIN COATED
C433	67A 309-	100 -	7T	10Uf +-20% 50V
C434	67A 309-		7T	22Uf +-20% 50V
C435	64A 44J-	103 -	1AT	0.01Uf +-2% 100V
C436	67A 305-	470 -	7T	47Uf +-20% 50V
C437	67A 309-		3T	22Uf +-20% 16V
C439	67A 309-	109 -	7T	1.0Uf +-20% 50V
C442	64A 176J-		1T	2700PF +-5% 100V
C443	67A 309-	470 -	3T	47Uf +-20% 16V
C444	65A 450- 95A 90-	104 - 23	7T	0.1Uf +80-20% Y5V 50V
C445 C446	95A 90- 65A 444-		5T	TIN COATED 100PF10% Y5P 50V
C446 C447			1AT	
C447	64A 45G- 64A 176J-	102 - 473 -	1A1 1T	0.001uF +-2% 100V 0.047uF +-5% 100V
C449 C460	64A 44J- 65A 450-	473 - 333 -	1AT 7T	0.047uF +-2% 100V 0.033uF +-5% 50V
C460 C463	65A 45U- 64A 44J-	333 - 103 -	7 I 1AT	0.033uF +-3% 30V 0.1uF +-2% 100V
C463 C476	64A 44J- 65A 450-	103 - 104 -	1A1 7T	0.1uF +-2% 100V 0.1uF +80-20% Y5V 50V
C503	67A 309-	104 - 100 -	7 T 7 T	0.1uF +80-20% 15V 50V 10Uf +-20% 50V
C503	67A 309-	100 - 100 -	7 T	1001 +-20% 50V 10Uf +-20% 50V
C504 C505	67A 309-	100 - 109 -	7 T	1001 +-20% 50V 1Uf +-20% 50V
C303	U/A 309-	109 -	/ 1	101 +-20% 30 v

	LOCATION	CM	P356PAI			SPECIFICATION
	C506	67A	309-	109 -	7T	1Uf +-20% 50V
	C510	67A	176J-	472 -	1T	0.0047Uf +/5% 100V
	C511	64A	176J-	472 -	1T	0.0047Uf +/5% 100V
	C601	64A	44J-	104 -	1AT	0.1uF +-2% 100V
	C602	65A	444-	331 -	5T	330PF10% Y5P 50V
	C604	64A	176J-	224 -	OT	0.22uF +-5% 63V
	C607	65A	444-	681 -	5T	680PF10% Y5P 50V
	C608	65A	450-	104 -	7T	0.1uF +80-20% Y5V 50V
	C609	64A	44J-	104 -	1AT	0.1uF +-2% 100V
	C610	64A	176J-	474 -	OT	0.47uF +-5% 63V/50V
	C611	65A	450-	104 -	7T	0.1uF +80-20% Y5V 50V
	C612	67A	309-	470 -	3T	47uF +-20% 16V
	C613	64A	44J-	154 -	1AT	0.15uF +-2% 100V
	C614	65A	444-	101 -	5T	100PF10% Y5P 50V
	C615	64A	44J-	103 -	1AT	0.01uF +-2% 100V
	C705	67A	309-	220 -	7T	22uF +-20% 50V
	C707	64A	176J-	223 -	2T	0.022uF +-5% 250V
	C710	64A	176J-	224 -	1T	0.22uF +-5% 100V
	C712	67A	60-	229 -	7T	2.2uF +-20% 50V
	C914	67A	309-	479 -	7T	4.7uF +-20% 50V
	C916	67A	305-	101 -	4T	100uF +-20% 25V
	C917	67A	305-	229 -	7T	2.2uF +-20% 50V
	C918	64A	44J-	332 -	1AT	330pF +-2% 100V
	C920	64A	44J-	102 -	1AT	1000PF 100V
\wedge	C921	64A	44J-	104 -	1AT	0.1uF +-5% 100V
! \	C922	64A	176J-	104 -	1T	0.1uF +-5% 100V
	C924	64A	44J-	332 -	1AT	330PF 100V
	C925 C941	67A 64A	309- 176J-	100 - 104 -	7T 0T	10uF +-20% 50V 0.1uF +-5% 63V
	C943	64A	176J- 176J-	222 -	1AT	2200PF 100V
	C944	65A	450-	104 -	7T	0.1uF +80-20% Y5V 50V
	C945	64A	44 J -	104 -	1AT	0.1uF +-5% 100V
	C946	64A	176J-	104 -	2T	0.1uF +-5% 250V MPE
	C947	67A	309-	479 -	7T	4.7uF +-20% 50V
	C961	64A	44J-	103 -	1AT	0.01uF +-5% 100V
	C965	64A	44J-	103 -	1AT	0.01uF +-5% 100V
	C995	64A	44J-	472 -	1AT	4700PF 100V
	D101	93A	64-	11H -	52T	DIODE IN4148
	D102	93A	64-	11H -	52T	DIODE IN4148
	D103	93A	64-	11H -	52T	DIODE IN4148
	D104	93A		11H -	52T	DIODE IN4148
	D125	61A	602-	102 -	52T	1K OHM 5% 1/6W
	D402	93A	64-	11H -	52T	DIODE IN4148
^	D404	93A	64- 1002-	11H - 1T -	52T	DIODE IN4148
1	D403 D406	93A 93A	60-	21P -	52T 52T	IN5817 1A/20V PS156R
•	D407	93A	60-	211 - 21P -	52T	PS156R
	D409	93A	64-	11H -	52T	DIODE IN4148
	D411	93A	64-	19G -	52T	FAST RECPVERY
	D412	93A	64-	11H -	52T	DIODE IN4148
	D414	93A	60-	38T -	52T	FR103
	D415	93A	60-	26T -	52T	FR107
	D418	93A	60-	21P -	52T	PS156R
	D419	93A	60-	21P -	52T	PS156R
	D420	93A	64-	11H -	52T	DIODE IN4148
	D450	93A	64-	11H -	52T	DIODE IN4148
	D460	93A	64-	11H -	52T	DIODE IN4148
	D601	93A	52-	47P -	52T	IN4004
	D602	93A	64-	11H -	52T	DIODE IN4148
	D603	93A	64-	11H -	52T	DIODE IN4148
	D701 D702	93A	64- 64-	11H -	52T 52T	DIODE IN4148 DIODE IN4148
	D704	93A 93A	52-	11H - 47P -	521 52T	IN4004
	D704 D706	93A 93A	60-	21P -	52T	PS156R
	D710	95A	90-	23	321	TIN COATED
	D721	95A	90-	23		TIN COATED

LOCATION	CMP356PAI		SPECIFICATION
D909	93A 52- 1T -	52T	1A 600V IN4005
D910	93A 60- 21P -		PS156R
D911	93A 64- 31T -		SWITCH DIODE
D912	93A 64- 31T -		SWITCH DIODE
D913	93A 64- 11H -		DIODE IN4148
D914	93A 64- 11H -		DIODE IN4148
D925 D926	93A 3020- 6 - 93A 64- 11H -		STPR320 DIODE IN4148
D920 D927	93A 64- 11H -		DIODE IN4148
D928	93A 64- 11H -		DIODE IN4148
D930	93A 1040- 2 -		F.R.D. UF4004
D995	93A 64- 11H -		DIODE IN4148
D929	93A 52- 47P -		DIODE IN4004
FB401	71A 55- 9 -	T	SHIELDED
FB501	95A 90- 23		TIN COATED
FB502	95A 90- 23		TIN COATED
FB503	95A 90- 23		TIN COATED
FB901	95A 90- 23		TIN COATED
FB902	95A 90- 23		TIN COATED
FB903 FB904	95A 90- 23 71A 55- 9 -	T	TIN COATED SHIELD BEAD
FB905	95A 90- 23	1	TIN COATED
FB907	71A 55- 9 -	Т	SHIELD BEAD
J001	95A 90- 23	1	TIN COATED
J003	95A 90- 23		TIN COATED
J004	95A 90- 23		TIN COATED
J005	95A 90- 23		TIN COATED
J006	95A 90- 23		TIN COATED
J008	95A 90- 23		TIN COATED
J009	95A 90- 23		TIN COATED
J010	95A 90- 23		TIN COATED
J011	95A 90- 23		TIN COATED
J012	95A 90- 23		TIN COATED
J013 J014	95A 90- 23 95A 90- 23		TIN COATED TIN COATED
J015	95A 90- 23 95A 90- 23		TIN COATED TIN COATED
J016	95A 90- 23		TIN COATED
J019	95A 90- 23		TIN COATED
J020	95A 90- 23		TIN COATED
J021	95A 90- 23		TIN COATED
J022	95A 90- 23		TIN COATED
J023	95A 90- 23		TIN COATED
J024	95A 90- 23		TIN COATED
J025	95A 90- 23		TIN COATED
J026 J027	95A 90- 23 95A 90- 23		TIN COATED TIN COATED
J027 J028	95A 90- 23 95A 90- 23		TIN COATED TIN COATED
J028 J029	95A 90- 23 95A 90- 23		TIN COATED TIN COATED
J030	95A 90- 23		TIN COATED
J032	95A 90- 23		TIN COATED
J033	95A 90- 23		TIN COATED
J034	95A 90- 23		TIN COATED
J036	95A 90- 23		TIN COATED
J037	95A 90- 23		TIN COATED
J038	95A 90- 23		TIN COATED
J039	95A 90- 23		TIN COATED
J041	95A 90- 23		TIN COATED
J042 J043	95A 90- 23 95A 90- 23		TIN COATED TIN COATED
J044 J044	95A 90- 23 95A 90- 23		TIN COATED TIN COATED
J044 J045	95A 90- 23 95A 90- 23		TIN COATED TIN COATED
J046	95A 90- 23		TIN COATED TIN COATED
J049	95A 90- 23		TIN COATED
J050	95A 90- 23		TIN COATED
J051	95A 90- 23		TIN COATED

LOCATION	CMF	9356P A	I	SPECIFICATION
J052	95A	90-	23	TIN COATED
J053	95A	90-	23	TIN COATED
J054	95A	90-	23	TIN COATED
J057	95A	90-	23	TIN COATED
J058	95A	90-	23	TIN COATED
J061 J062	95A 95A	90- 90-	23 23	TIN COATED TIN COATED
J063	95A 95A	90- 90-	23	TIN COATED TIN COATED
J064	95A 95A	90-	23	TIN COATED
J065	95A	90-	23	TIN COATED
J066	95A	90-	23	TIN COATED
J067	95A	90-	23	TIN COATED
J068	95A	90-	23	TIN COATED
J069	95A	90-	23	TIN COATED
J070	95A	90-	23	TIN COATED
J071	95A	90-	23	TIN COATED
J072	95A	90-	23	TIN COATED
J073	95A	90-	23	TIN COATED
J074	95A	90-	23	TIN COATED
J075	95A	90-	23	TIN COATED
J077 J078	95A 95A	90- 90-	23 23	TIN COATED TIN COATED
J078 J079	95A 95A	90- 90-	23	TIN COATED TIN COATED
J080	95A	90-	23	TIN COATED
J081	95A	90-	23	TIN COATED
J082	95A	90-	23	TIN COATED
J083	95A	90-	23	TIN COATED
J084	95A	90-	23	TIN COATED
J085	95A	90-	23	TIN COATED
J086	95A	90-	23	TIN COATED
J087	95A	90-	23	TIN COATED
J088	95A	90-	23	TIN COATED
J089	95A	90-	23	TIN COATED
J090 J091	95A 95A	90- 90-	23 23	TIN COATED TIN COATED
J092	95A 95A	90-	23	TIN COATED
J093	95A	90-	23	TIN COATED
J094	95A	90-	23	TIN COATED
J095	95A	90-	23	TIN COATED
J096	95A	90-	23	TIN COATED
J097	95A	90-	23	TIN COATED
J098	95A	90-	23	TIN COATED
J099	95A	90-	23	TIN COATED
J100	95A	90-	23	TIN COATED
J101	95A	90-	23	TIN COATED
J102	95A	90-	23	TIN COATED
J103	95A	90- 90-	23	TIN COATED
J104 J105	95A 95A	90- 90-	23 23	TIN COATED TIN COATED
J107	95A	90-	23	TIN COATED
J108	95A	90-	23	TIN COATED
J109	95A	90-	23	TIN COATED
J110	95A	90-	23	TIN COATED
J111	95A	90-	23	TIN COATED
J112	95A	90-	23	TIN COATED
J113	95A	90-	23	TIN COATED
J114	95A	90-	23	TIN COATED
J115	95A	90-	23	TIN COATED
J116	95A	90-	23	TIN COATED
J117	95A	90-	23	TIN COATED
J118	95A	90- 90-	23	TIN COATED
J120 J121	95A 95A	90- 90-	23 23	TIN COATED TIN COATED
J123	95A 95A	90- 90-	23	TIN COATED TIN COATED
J125	95A	90-	23	TIN COATED
-				

LOCATION	CM	P356QA	I		SPECIFICATION
J127	95A	90-	23		TIN COATED
J130	95A	90-	23		TIN COATED
L101	73A	53-	339 -	10T	3.3UH +-10%
L402	95A	90-	23		TIN COATED
L403	95A	90-	23		TIN COATED
L406	95A	90-	23		TIN COATED
L907	95A	90-	23	_	TIN COATED
Q101	57A	446-	1 -	T	TR. 2SC1213AC
Q401	57A 57A	419- 706-	P - 2 -	T T	2SC945P/NEC 2N7000
Q402 Q404	57A	420-	SG -	T	KSA733GC SAMSUNG
Q405	57A	420-	SG -	T	KSA733GC SAMSUNG KSA733GC SAMSUNG
Q408	57A	419-	P -	T	2SC945P/NEC
Q601	57A	419-	Y -	T	TR. 2SC1815Y TOSHIBA
Q703	57A	419-	P -	T	2SC945P/NEC
Q704	57A	420-	SG -	T	KSA733GC SAMSUNG
Q707	57A	419-	Y -	T	TR. 2SC1815Y TOSHIBA
Q904	57A	594-	501 -	T	TR. 2N6517
Q908	57A	419-	P -	T	2SC945P/NEC
Q910	57A	419-	P -	T	2SC945P/NEC
Q912	57A	446-	1 -	T	1213AC
Q914	95A	90-	23		TIN COATED
Q920	57A	727-	2 -	T	2SA673C
R100	61A	602- 602-	472 - 102 -	52T	4.7K OHM +-5% 1/6W 1K OHM +-5% 1/6W
R101 R102	61A 61A	602-	102 -	52T 52T	1K OHM +-5% 1/6W 1K OHM +-5% 1/6W
R103	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R104	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R105	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R106	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R107	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R108	61A	602-	512 -	52T	5.1K OHM +-5% 1/6W
R109	61A	602-	512 -	52T	5.1K OHM +-5% 1/6W
R110	61A	602-	221 -	52T	220 OHM +-5% 1/6W
R111	61A	602-	221 -	52T	220 OHM +-5% 1/6W
R112	61A	602-	622 -	52T	6.2K OHM +-5% 1/6W
R113	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R114	61A 61A	602- 602-	102 - 472 -	52T	1K OHM +-5% 1/6W
R116 R117	61A	602-	101 -	52T 52T	4.7K OHM +-5% 1/6W 100 OHM +-5% 1/6W
R117 R118	61A	602-	101 -	52T	10K OHM +-5% 1/6W
R119	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R122	61A	172-	221 -	52T	220 OHM +-5% 1/4W
R126	61A	172-	202 -	52T	2K OHM +-5% 1/4W
R132	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R134	61A	602-	912 -	52T	9.1K OHM +-5% 1/6W
R135	61A	602-	152 -	52T	1.5K OHM +-5% 1/6W
R136	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R137	61A	602-	272 -	52T	2.7K OHM +-5% 1/6W
R140	61A	602-	472 -	52T	4.7K OHM +-5% 1/6W
R143 R149	61A 61A	602- 602-	101 - 152 -	52T 52T	100 OHM +-5% 1/6W 1.5K OHM +-5% 1/6W
R156	61A	602-	103 -	52T	1.5K OHM +-5% 1/6W 10K OHM +-5% 1/6W
R157	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R160	61A	602-	221 -	52T	220 OHM +-5% 1/6W
R161	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R165	61A	602-	222 -	52T	2.2K OHM +-5% 1/6W
R166	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R172	61A	602-	102 -	52T	1K OHM +-5% 1/6W
R180	61A	602-	362 -	52T	3.6K OHM +-5% 1/6W
R185	93A	64-	11H -	52T	DIODE 1N4148
R402	61A	172-	222 -	52T	2.2K OHM +-5% 1/4W
R403	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R404	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R405	61A	602-	101 -	52T	100 OHM +-5% 1/6W

LOCATION	CMP356PAI		SPECIFICATION
R406	61A 602- 101 -	52T	100 OHM +-5% 1/6W
R408	61A 172- 304 -	52T	300K OHM +-5% 1/4W
R409	61A 172- 364 -	52T	360K OHM +-5% 1/4W
R410	61A 210- 472 -	52T	4.7K OHM +-1% 1/6W
R411	61A 602- 182 -	52T	1.8K OHM +-5% 1/6W
R414	61A 172- 242 -	52T	2.4K OHM +-5% 1/4W
R415	61A 172- 753 -	52T	75K OHM +-5% 1/4W
R416	61A 210- 183 -	52T	18K OHM +-1% 1/6W
R417 R418	95A 90- 23 61A 210- 183 -	52T	TIN COATED 18K OHM +-1% 1/6W
R420	61A 172- 472 -	52T	4.7K OHM +-5% 1/4W
R421	61A 172- 472 -	52T	2.2K OHM +-5% 1/4W
R422	61A 602- 101 -	52T	100 OHM +-5% 1/6W
R423	61A 602- 203 -	52T	20K OHM +-5% 1/6W
R425	61A 172- 221 -	52T	220 OHM +-5% 1/4W
R427	61A 175L- 220 -	52T	22 OHM +-5% 1/2W
R429	61A 175L- 100 -	52T	10 OHM +-5% 1/2W
R430	61A 172- 154 -	52T	150K OHM +-5% 1/4W
R431	95A 90- 23	50T	TIN COATED
R433 R434	61A 602- 222 - 61A 602- 392 -	52T 52T	2.2K OHM +-5% 1/6W 3.9K OHM +-5% 1/6W
R435	61A 172- 122 -	52T	1.2K OHM +-5% 1/4W
R436	61A 602- 821 -	52T	820 OHM +-5% 1/6W
R440	61A 602- 562 -	52T	5.6KOHM +-5% 1/6W
R441	61A 175L- 913 -	52T	91K OHM +-5% 1/2W
R447	61A 172- 473 -	52T	47K OHM +-5% 1/4W
R448	61A 172- 202 -	52T	2K OHM +-5% 1/4W
R449	61A 172- 472 -	52T	4.7K OHM +-5% 1/4W
R450	61A 602- 563 -	52T	56K OHM +-5% 1/6W
R462	61A 602- 243 -	52T	24K OHM +-5% 1/6W
R470	61A 602- 133 -	52T	13K OHM +-5% 1/6W
R490	61A 210- 513 -	52T	51K OHM +-1% 1/6W
R497 R502	61A 602- 561 - 61A 210- 363 -	52T 52T	560K OHM +-5% 1/6W 36K OHM +-1% 1/6W
R502 R503	61A 210- 303 -	52T	30K OHM +-1% 1/6W
R504	61A 602- 103 -	52T	10K OHM +-5% 1/6W
R505	61A 210- 363 -	52T	36K OHM +-1% 1/6W
R506	61A 210- 303 -	52T	30K OHM +-1% 1/6W
R507	61A 602- 103 -	52T	10K OHM +-5% 1/6W
R508	61A 210- 302 -	52T	3K OHM +-1% 1/6W
R520	95A 90- 23		TIN COATED
R601	61A 172- 243 -	52T	24K OHM +-5% 1/4W
R602	61A 172- 392 - 61A 172- 123 -	52T 52T	3.9K OHM +-5% 1/4W 12K OHM +-5% 1/4W
R603 R604	61A 172- 123 -	52T	5.6K OHM +-5% 1/4W
R605	61A 175L- 159 -	52T	1.5 OHM +-5% 1/2W
R606	61A 175L- 271 -	52T	270 OHM +-5% 1/2W
R609	61A 172- 564 -	52T	560K OHM +-5% 1/4W
R610	61A 172- 124 -	52T	120K OHM +-5% 1/4W
R611	61A 172- 563 -	52T	56K OHM +-5% 1/4W
R612	61A 172- 222 -	52T	2.2K OHM +-5% 1/4W
R613	61A 172- 102 -	52T	1K OHM +-5% 1/4W
R614	61A 172- 243 -	52T	24K OHM +-5% 1/4W
R707	61A 602- 472 -	52T	4.7K OHM +-5% 1/6W
R708	61A 602- 103 -	52T	10K OHM +-5% 1/6W
R709 R710	61A 602- 103 - 61A 602- 103 -	52T 52T	10K OHM +-5% 1/6W 10K OHM +-5% 1/6W
R710 R711	61A 602- 103 -	52T	10K OHM +-5% 1/6W
R711 R712	61A 602- 273 -	52T	27K OHM +-5% 1/6W
R713	61A 602- 562 -	52T	5.6K OHM +-5% 1/6W
R715	61A 602- 103 -	52T	10K OHM +-5% 1/6W
R720	61A 172- 104 -	52T	100K OHM +-5% 1/4W
R721	61A 175L- 102 -	52T	1K OHM +-5% 1/2W
R722	61A 602- 332 -	52T	3.3K OHM +-5% 1/6W

R724 61A 172 105 52T 1MEG OHM +5% 1/4W R725 61A 204 154 - 52T 150K OHM +5% 1/2W R726 61A 602 102 - 52T 150K OHM +5% 1/2W R727 61A 1751 823 - 52T 82K OHM +5% 1/2W R728 61A 172 561 52T 560 OHM +5% 1/2W R728 61A 172 561 52T 560 OHM +5% 1/2W R729 61A 602 470 - 52T 47 OHM +5% 1/6W R730 95A 90 23 8750 61A 204 124 - 52T 10C OHM +5% 1/2W R730 61A 204 124 - 52T 120K OHM +5% 1/2W R730 61A 204 124 - 52T 120K OHM +5% 1/2W R730 61A 204 124 - 52T 273 52T 27K OHM +5% 1/2W R730 61A 172 474 - 52T 470K OHM +5% 1/2W R730 61A 172 474 - 52T 470K OHM +5% 1/4W R730 61A 172 474 - 52T 470K OHM +5% 1/4W R730 61A 172 474 - 52T 470K OHM +5% 1/4W R730 61A 172 20 52T 18K OHM +5% 1/4W R730 61A 172 20 52T 18K OHM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 1 0HM +5% 1/4W R730 61A 172 20 52T 20 0HM +5% 1/4W R730 61A 172 20 52T 20 0HM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172 20 52T 30K OHM +5% 1/4W R730 61A 172		LOCATION	CMP356PA	AI.		SPECIFICATION
R726		R724	61A 172-	105 -	52T	1MEG OHM +-5% 1/4W
R727 R728 61A 172- 561 - 52T R729 61A 602- 470 - 52T R730 95A 90- 23 R750 61A 204- 124 - 52T 120K OHM +5% 1/2W R801 61A 1751- 474 - 52T R750 61A 204- 124 - 52T 120K OHM +5% 1/2W R801 61A 1752- 473 - 52T R750 61A 204- 124 - 52T 120K OHM +5% 1/2W R822 61A 172- 273 - 52T R750 R801 R801 R801 R801 R801 R801 R801 R80		R725	61A 204-	154 -	52T	150K OHM +-5% 1/2W
R728 R729 61A 172- 561 - 52T 560 CHM +5% 1/4W R730 P5A 90 23 R750 61A 204 124 - 52T 120K OHM +5% 1/2W R8901 R891 R892 61A 1751 474 - 52T 120K OHM +5% 1/2W R892 61A 172- 273 - 52T 27K OHM +5% 1/2W R892 R923 61A 172- 474 - 52T 470K OHM +5% 1/4W R892 R924 61A 172- 474 - 52T 470K OHM +5% 1/4W R925 R926 61A 172- 474 - 52T 470K OHM +5% 1/4W R926 R930 61A 172- 183 - 52T 18K OHM +5% 1/4W R931 R931 R932 R932 R933 R933 R933 R934 R934 R934 R934 R935 R936 R1A 172- 202 - 52T 1 OHM +1% 1/4W R935 R936 R937 R938 R939 R939 R939 R939 R939 R939 R939		R726		102 -	52T	1K OHM +-5% 1/6W
R729 R730 P55A R750 R750 R750 R750 R750 R750 R750 R750		R727	61A 175L-	823 -	52T	82K OHM +-5% 1/2W
R730 95A 90 23 TIN COATED R750 61A 204- 124 - 52T 120K OHM +5% 12W R901 61A 1751 474 - 52T 470K OHM +5% 12W R902 61A 172- 273 - 52T 27K OHM +5% 14W R923 61A 172- 474 - 52T 470K OHM +5% 14W R924 61A 172- 474 - 52T 470K OHM +5% 14W R925 61A 172- 2474 - 52T 470K OHM +5% 14W R926 61A 172- 183 - 52T 18K OHM +5% 14W R930 61A 172- 202 - 52T 10HM +1% 14W R931 61A 200 109 - 52T 10HM +1% 14W R932 61A 172- 202 - 52T 28 OHM +5% 14W R933 61A 172- 202 - 52T 360 OHM +5% 14W R934 61A 172- 361 - 52T 360 OHM +5% 14W R935 61A 172- 361 - 52T 360 OHM +5% 14W R935 61A 172- 374 - 52T 180 OHM +5% 14W R936 61A 172- 102 - 52T 180 OHM +5% 14W R937 61A 172- 203 - 52T 180 OHM +5% 14W R938 61A 172- 203 - 52T 20 K OHM +5% 14W R939 61A 172- 203 - 52T 20 K OHM +5% 14W R940 61A 171- 393 - 52T 20 K OHM +5% 14W R941 61A 172- 102 - 52T 380 OHM +5% 14W R941 61A 172- 102 - 52T 180 OHM +5% 14W R941 61A 172- 102 - 52T 180 OHM +5% 14W R942 61A 172- 203 - 52T 20 K OHM +5% 14W R953 61A 172- 203 - 52T 20 K OHM +5% 14W R954 61A 172- 360 - 52T 380 OHM +5% 14W R956 61A 172- 373 - 52T 380 OHM +5% 14W R957 61A 172- 373 - 52T 380 OHM +5% 14W R958 61A 172- 102 - 52T 15K OHM +5% 14W R959 61A 172- 473 - 52T 47K OHM +5% 14W R956 61A 172- 473 - 52T 47K OHM +5% 14W R957 61A 172- 473 - 52T 47K OHM +5% 14W R958 61A 172- 473 - 52T 47K OHM +5% 14W R959 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 203 - 52T 18K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 473 - 52T 47K OHM +5% 14W R960 61A 172- 520 - 52T 18K OHM +5% 14W R960 61A 172- 520 - 52T 18K OHM +5% 14W R960 61A 172- 520 - 52T 18K OHM +5% 14W R960 61A 172- 523 - 52T 18K OHM +5% 14W R960 61A 172- 523		R728	61A 172-	561 -	52T	560 OHM +-5% 1/4W
R750 61A 204 124 - 52T 120K OHM +5% 12W R921 61A 175L 474 - 52T 470K OHM +5% 12W R922 61A 1722 474 - 52T 470K OHM +5% 1/4W R923 61A 1722 474 - 52T 470K OHM +5% 1/4W R924 61A 172 474 - 52T 470K OHM +5% 1/4W R925 61A 172 243 - 52T 24K OHM +5% 1/4W R926 61A 172 243 - 52T 24K OHM +5% 1/4W R930 61A 172 202 - 52T 24K OHM +5% 1/4W R931 61A 200 - 109 - 52T 10HM +5% 1/4W R932 61A 172 202 - 52T 2 K OHM +5% 1/4W R932 61A 172 202 - 52T 2 K OHM +5% 1/4W R933 61A 172 361 - 52T 360 OHM +5% 1/4W R934 61A 172 102 - 52T 1K OHM +5% 1/4W R935 61A 172 334 - 52T 330K OHM +5% 1/4W R937 61A 172 233 - 52T 20 OHM +5% 1/4W R938 61A 172 20 - 52T 20 OHM +5% 1/4W R939 61A 172 203 - 52T 20 OHM +5% 1/4W R940 61A 171 393 - 52T 20 K OHM +5% 1/4W R941 61A 172 680 - 52T 30K OHM +2% 1/4W R942 61A 172 680 - 52T 30K OHM +2% 1/4W R953 61A 172 473 - 52T 47K OHM +5% 1/4W R956 61A 172 203 - 52T 30K OHM +5% 1/4W R957 61A 172 473 - 52T 30K OHM +5% 1/4W R958 61A 172 100 - 52T 30K OHM +5% 1/4W R959 61A 172 473 - 52T 30K OHM +5% 1/4W R956 61A 172 203 - 52T 30K OHM +5% 1/4W R957 61A 172 100 - 52T 30K OHM +5% 1/4W R958 61A 172 203 - 52T 30K OHM +5% 1/4W R959 61A 172 203 - 52T 30K OHM +5% 1/4W R956 61A 172 203 - 52T 30K OHM +5% 1/4W R957 61A 172 303 - 52T 30K OHM +5% 1/4W R958 61A 172 203 - 52T 30K OHM +5% 1/4W R959 61A 172 203 - 52T 30K OHM +5% 1/4W R960 61A 172 203 - 52T 30K OHM +5% 1/4W R960 61A 172 203 - 52T 30K OHM +5% 1/4W R960 61A 172 203 - 52T 30K OHM +5% 1/4W R960 61A 172 203 - 52T 30K OHM +5% 1/4W R960 61A 172 203 - 52T 30K OHM +5% 1/4W R960 61A 172 223 - 52T 30K OHM +5% 1/4W R960 61A 172		R729	61A 602-	470 -	52T	47 OHM +-5% 1/6W
R901		R730	95A 90-	23		TIN COATED
R922		R750	61A 204-	124 -	52T	120K OHM +-5% 1/2W
R923 61A 172- 474- 52T 470K OHM +-5% 1/4W R924 61A 172- 474- 52T 470K OHM +-5% 1/4W R925 61A 172- 243- 52T 24K OHM +-5% 1/4W R930 61A 172- 202- 52T 2K OHM +-5% 1/4W R931 61A 200- 109- 52T 1 OHM +-1% 1/4W R932 61A 172- 361- 52T 2 K OHM +-5% 1/4W R933 61A 172- 361- 52T 360 OHM +-5% 1/4W R934 61A 172- 334- 52T 30K OHM +-5% 1/4W R935 61A 172- 234- 52T 150 OHM +-5% 1/4W R937 61A 172- 205- 52T 20K OHM +-5% 1/4W R939 61A 172- 203- 52T 20K OHM +-5% 1/4W R940 61A 172- 203- 52T 20K OHM +-5% 1/4W R941 61A 172- 523-		R901	61A 175L-	474 -	52T	470K OHM +-5% 1/2W
R924 R925 61A 172- 243 - 52T		R922	61A 172-	273 -	52T	27K OHM +-5% 1/4W
R925 61A 172- 243 - 52T 24K OHM +-5% 1/4W R930 61A 172- 202 - 52T 18K OHM +-5% 1/4W R930 61A 172- 202 - 52T 2 K OHM +-5% 1/4W R931 61A 200- 109 - 52T 1 OHM +-1% 1/4W R932 61A 172- 361 - 52T 360 OHM +-5% 1/4W R933 61A 172- 361 - 52T 360 OHM +-5% 1/4W R934 61A 172- 102 - 52T 1K OHM +-5% 1/4W R935 61A 172- 334 - 52T 360 OHM +-5% 1/4W R935 61A 172- 334 - 52T 150 OHM +-5% 1/4W R935 61A 172- 203 - 52T 22 OHM +-5% 1/4W R939 61A 172- 203 - 52T 22 OHM +-5% 1/4W R939 61A 172- 203 - 52T 20 OHM +-5% 1/4W R940 61A 172- 203 - 52T 20 OHM +-5% 1/4W R941 61A 172- 152 - 52T 1.5K OHM +-5% 1/4W R942 61A 172- 680 - 52T 68 OHM +-5% 1/4W R951 61A 172- 172- 203 - 52T 1.5K OHM +-5% 1/4W R952 61A 172- 303 - 52T 30K OHM +-5% 1/4W R952 61A 172- 303 - 52T 30K OHM +-5% 1/4W R953 61A 172- 303 - 52T 30K OHM +-5% 1/4W R953 61A 172- 303 - 52T 30K OHM +-5% 1/4W R956 61A 172- 473 - 52T 47K OHM +-1% 1/4W R957 61A 172- 473 - 52T 47K OHM +-5% 1/4W R959 61A 172- 473 - 52T 47K OHM +-5% 1/4W R959 61A 172- 473 - 52T 47K OHM +-5% 1/4W R959 61A 172- 473 - 52T 47K OHM +-5% 1/4W R959 61A 172- 473 - 52T 47K OHM +-5% 1/4W R960 61A 172- 473 - 52T 47K OHM +-5% 1/4W R960 61A 172- 473 - 52T 47K OHM +-5% 1/4W R960 61A 172- 473 - 52T 47K OHM +-5% 1/4W R960 61A 172- 473 - 52T 47K OHM +-5% 1/4W R960 61A 172- 473 - 52T 47K OHM +-5% 1/4W R960 61A 172- 473 - 52T 47K OHM +-5% 1/4W R960 61A 172- 473 - 52T 47K OHM +-5% 1/4W R960 61A 172- 302 - 52T 33K OHM +-5% 1/4W R960 61A 172- 303 - 52T 33K OHM +-5% 1/4W R960 61A 172- 303 - 52T 33K OHM +-5% 1/4W R960 61A 172- 200 - 52T 20 OHM +-5% 1/4W R960 61A 172- 200 - 52T 33K OHM +-5% 1/4W R960 61A 172- 200 - 52T 33K OHM +-5% 1/4W R960 61A 172- 200 - 52T 33K OHM +-5% 1/4W R960 61A 172- 200 - 52T 33K OHM +-5% 1/4W R960 61A 172- 200 - 52T 33K OHM +-5% 1/4W R960 61A 172- 200 - 52T 33K OHM +-5% 1/4W R960 61A 172- 200 - 52T 33K OHM +-5% 1/4W R960 61A 172- 220 - 52T 33K OHM +-5% 1/4W R960 61A 172- 220 - 52T 33K OHM +-5% 1/4W R960 61A 172- 220 - 52T 320 OHM +-5% 1/4W R960 61A 172- 220 - 52T 320 OHM +-5% 1/4W R960 61A 172- 220 - 52T 320 OHM						470K OHM +-5% 1/4W
R926 R930 61A 172- 183 - 52T R930 61A 172- 202 - 52T R931 61A 200- 109 - 52T R931 61A 200- 109 - 52T R932 61A 172- 222 - 52T R933 61A 172- 361 - 52T R933 61A 172- 361 - 52T R934 R934 R934 R935 61A 172- 102 - 52T R937 R937 R937 61A 172- 131 - 52T R938 R938 R939 R939 R939 R940 R940 R941 R941 R941 R941 R942 R951 R941 R942 R951 R942 R951 R942 R951 R942 R951 R941 R942 R951 R948 R951 R949 R940 R941 R941 R941 R941 R941 R941 R942 R951 R941 R941 R941 R942 R951 R941 R942 R951 R948 R951 R949 R951 R940 R951 R940 R951 R940 R951 R941 R941 R941 R942 R951 R948 R951 R949 R951 R940 R953 R951 R940 R951 R958 R951 R958 R958 R958 R958 R958 R958 R958 R958						470K OHM +-5% 1/4W
R930						24K OHM +-5% 1/4W
R931 R932 61A 172- 222 - 52T R933 61A 172- 361 - 52T R934 61A 172- 361 - 52T R935 61A 172- 361 - 52T R936 R937 R937 61A 172- 334 - 52T R937 R937 61A 172- 151 - 52T R938 R939 61A 172- 203 - 52T R939 R940 R940 R941 R941 R941 R951 R951 R951 R951 R951 R951 R951 R95						18K OHM +-5% 1/4W
R932						
R933						
R934 61A 172- 102 - SZT 1K OHM +5% 1/4W R937 61A 172- 334 - SZT 330K OHM +5% 1/4W R938 61A 172- 220 - SZT 22 OHM +5% 1/4W R939 61A 172- 220 - SZT 22 OHM +5% 1/4W R939 61A 172- 220 - SZT 22 OHM +5% 1/4W R940 61A 171- 393 - SZT 39K OHM +2% 1/4W R941 61A 172- 152 - SZT 1 5K OHM +5% 1/4W R951 61A 172- 160 - SZT 68 OHM +5% 1/4W R951 61A 172- 100 - SZT 10 OHM +1% 1/4W R952 61A 172- 473 - SZT 47K OHM +1% 1/4W R953 61A 172- 303 - SZT 30K OHM +5% 1/4W R956 61A 172- 473 - SZT 47K OHM +5% 1/4W R957 61A 172- 303 - SZT 30K OHM +5% 1/4W R958 61A 172- 122 - SZT 1.2K OHM +5% 1/4W R959 61A 172- 333 - SZT 33K OHM +5% 1/4W R960 61A 172- 333 - SZT 33K OHM +5% 1/4W R960 61A 172- 333 - SZT 33K OHM +5% 1/4W R966 61A 172- 220 - SZT 33K OHM +5% 1/4W R966 61A 172- 220 - SZT 33K OHM +5% 1/4W R966 61A 172- 221 - SZT 33K OHM +5% 1/4W R966 61A 172- 220 - SZT 3K OHM +5% 1/4W R967 61A 172- 303 - SZT 33K OHM +5% 1/4W R968 61A 172- 132 - SZT 33K OHM +5% 1/4W R969 61A 172- 302 - SZT 38K OHM +5% 1/4W R969 61A 172- 302 - SZT 38K OHM +5% 1/4W R966 61A 172- 221 - SZT 38K OHM +5% 1/4W R967 61A 172- 302 - SZT 38K OHM +5% 1/4W R968 61A 172- 302 - SZT 38K OHM +5% 1/4W R969 61A 172- 302 - SZT 38K OHM +5% 1/4W R969 61A 172- 132 - SZT 38K OHM +5% 1/4W R969 61A 172- 222 - SZT 38K OHM +5% 1/4W R969 61A 172- 223 - SZT 38K OHM +5% 1/4W R969 61A 172- 132 - SZT 38K OHM +5% 1/4W R969 61A 172- 132 - SZT 38K OHM +5% 1/4W R969 61A 172- 132 - SZT 38K OHM +5% 1/4W R969 61A 172- 132 - SZT 38K OHM +5% 1/4W R969 61A 172- 132 - SZT 38K OHM +5% 1/4W R969 61A 172- 132 - SZT 39K OHM +5% 1/4W R969 61A 172- 183 - SZT 39K OHM +5% 1/4W R970 61A 172- 183 - SZT 39K OHM +5% 1/4W R968 61A 172- 183 - SZT 39K OHM +5% 1/4W R969 61A 172- 183 - SZT 39K OHM +5% 1/4W R960 61A 172- 183 - SZT 39K OHM +5% 1/4W R960 61A 172- 183 - SZT 39K OHM +5% 1/4W R960 61A 172- 183 - SZT 39K OHM +5% 1/4W R960 61A 172- 183 - SZT 39K OHM +5% 1/4W R960 61A 172- 183 - SZT 39K OHM +5% 1/4W R960 61A 172- 183 - SZT 39K OHM +5% 1/4W R960 61A 172- 183 - SZT 39K OHM +5% 1/4W R960 61A 172- 183 - SZT 39K OHM +5% 1/4W						
R935 61A 172- 151- 52T 150 OHM +-5% 1/4W R938 61A 172- 220 - 52T 22 OHM +-5% 1/4W R939 61A 172- 220 - 52T 22 OHM +-5% 1/4W R940 61A 171- 393 - 52T 39K OHM +-5% 1/4W R941 61A 172- 152 - 52T 1.5K OHM +-5% 1/4W R941 61A 172- 152 - 52T 1.5K OHM +-5% 1/4W R942 61A 172- 160 - 52T 68 OHM +-5% 1/4W R951 61A 172- 100 - 52T 10 OHM +-1% 1/4W R952 61A 172- 473 - 52T 47K OHM +-1% 1/4W R953 61A 172- 303 - 52T 30K OHM +-5% 1/4W R956 61A 172- 122 - 52T 1.5K OHM +-5% 1/4W R957 61A 172- 122 - 52T 1.5K OHM +-5% 1/4W R958 61A 172- 122 - 52T 1.5K OHM +-5% 1/4W R959 61A 172- 333 - 52T 30K OHM +-5% 1/4W R960 61A 172- 473 - 52T 47K OHM +-5% 1/4W R960 61A 172- 333 - 52T 30K OHM +-5% 1/4W R960 61A 172- 333 - 52T 30K OHM +-5% 1/4W R960 61A 172- 333 - 52T 1.5K OHM +-5% 1/4W R960 61A 172- 332 - 52T 1.5K OHM +-5% 1/4W R960 61A 172- 200 - 52T 1.5K OHM +-5% 1/4W R960 61A 172- 220 - 52T 33K OHM +-5% 1/4W R960 61A 172- 220 - 52T 22 OHM +-5% 1/4W R966 61A 172- 120 - 52T 31K OHM +-5% 1/4W R967 61A 172- 332 - 52T 31K OHM +-5% 1/4W R968 61A 172- 132 - 52T 31K OHM +-5% 1/4W R969 61A 172- 132 - 52T 31K OHM +-5% 1/4W R968 61A 172- 132 - 52T 31K OHM +-5% 1/4W R969 61A 172- 133 - 52T 31K OHM +-5% 1/4W R969 61A 172- 132 - 52T 31K OHM +-5% 1/4W R969 61A 172- 132 - 52T 31K OHM +-5% 1/4W R969 61A 172- 132 - 52T 31K OHM +-5% 1/4W R969 61A 172- 132 - 52T 31K OHM +-5% 1/4W R977 61A 172- 133 - 52T 31K OHM +-5% 1/4W R996 61A 172- 164 - 52T 31K OHM +-5% 1/4W R996 61A 172- 165 - 52T 31K OHM +-5% 1/4W R996 61A 172- 166 - 52T 31K OHM +-5% 1/4W R996 61A 172- 221 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W R996 61A 172- 106 - 52T 32 OHM +-5% 1/4W						
R937 61A 172- 151 - 52T 150 OHM +5% 1/4W R938 61A 172- 220 - 52T 22 OHM +5% 1/4W R939 61A 172- 220 - 52T 20 KO HM +5% 1/4W R940 61A 171- 393 - 52T 39K OHM +2% 1/4W R941 61A 172- 1680 - 52T 1.5K OHM +5% 1/4W R942 61A 172- 680 - 52T 68 OHM +5% 1/4W R951 61A 172- 100 - 52T 10 OHM +1% 1/4W R952 61A 172- 473 - 52T 47K OHM +5% 1/4W R953 61A 172- 303 - 52T 30K OHM +5% 1/4W R956 61A 172- 122 - 52T 1.2K OHM +5% 1/4W R957 61A 172- 473 - 52T 47K OHM +5% 1/4W R958 61A 172- 102 - 52T 1.2K OHM +5% 1/4W R959 61A 172- 303 - 52T 33K OHM +5% 1/4W R959 61A 172- 102 - 52T 1.2K OHM +5% 1/4W R960 61A 172- 122 - 52T 1.2K OHM +5% 1/4W R961 61A 172- 122 - 52T 1.2K OHM +5% 1/4W R962 61A 172- 220 - 52T 22 OHM +5% 1/4W R963 61A 172- 220 - 52T 33K OHM +5% 1/4W R966 61A 172- 220 - 52T 33K OHM +5% 1/4W R967 61A 172- 302 - 52T 33K OHM +5% 1/4W R968 61A 172- 302 - 52T 34K OHM +5% 1/4W R969 61A 172- 302 - 52T 34K OHM +5% 1/4W R969 61A 172- 302 - 52T 34K OHM +5% 1/4W R969 61A 172- 302 - 52T 34K OHM +5% 1/4W R969 61A 172- 302 - 52T 34K OHM +5% 1/4W R969 61A 172- 224 - 52T 1.3K OHM +5% 1/4W R969 61A 172- 132 - 52T 1.3K OHM +5% 1/4W R969 61A 172- 230 - 52T 34K OHM +5% 1/4W R969 61A 172- 132 - 52T 1.5K OHM +5% 1/4W R969 61A 172- 132 - 52T 1.5K OHM +5% 1/4W R969 61A 172- 230 - 52T 34K OHM +5% 1/4W R969 61A 172- 132 - 52T 1.5K OHM +5% 1/4W R969 61A 172- 132 - 52T 1.5K OHM +5% 1/4W R969 61A 172- 132 - 52T 1.5K OHM +5% 1/4W R969 61A 172- 132 - 52T 1.5K OHM +5% 1/4W R972 61A 172- 133 - 52T 18K OHM +5% 1/4W R988 61A 172- 106 - 52T 10MEG OHM +5% 1/4W R989 61A 602 393 - 52T 39 OHM +5% 1/4W R986 61A 602 393 - 52T 39 OHM +5% 1/4W R996 61A 602 393 - 52T 39 OHM +5% 1/4W R996 61A 602 393 - 52T 39 OHM +5% 1/4W R996 61A 602 393 - 52T 30 OHM +5% 1/4W R996 61A 602 393 - 52T 30 OHM +5% 1/4W R996 61A 602 393 - 52T 30 OHM +5% 1/4W R996 61A 602 393 - 52T 30 OHM +5% 1/4W R996 61A 602 393 - 52T 30 OHM +5% 1/4W R996 61A 602 393 - 52T 30 OHM +5% 1/4W R996 61A 602 393 - 52T 30 OHM +5% 1/4W R996 61A 602 393 - 52T 30 OHM +5% 1/4W R996 61A 602 393 - 52T 30 OHM +5% 1/4W R996 61						
R938 61A 172- 220 - 52T 22 OHM +-5% 1/4W R939 61A 172- 203 - 52T 20K OHM +-5% 1/4W R940 61A 171- 393 - 52T 39K OHM +-5% 1/4W R941 61A 172- 152 - 52T 1.5K OHM +-5% 1/4W R941 61A 172- 152 - 52T 1.5K OHM +-5% 1/4W R951 61A 172- 100 - 52T 10 OHM +-1% 1/4W R952 61A 172- 473 - 52T 47K OHM +-1% 1/4W R953 61A 172- 303 - 52T 30K OHM +-5% 1/4W R956 61A 172- 122 - 52T 1.2K OHM +-5% 1/4W R957 61A 172- 122 - 52T 1.2K OHM +-5% 1/4W R958 61A 172- 473 - 52T 47K OHM +-5% 1/4W R959 61A 172- 333 - 52T 30K OHM +-5% 1/4W R960 61A 172- 333 - 52T 30K OHM +-5% 1/4W R960 61A 172- 333 - 52T 30K OHM +-5% 1/4W R960 61A 172- 332 - 52T 10 CHM +-5% 1/4W R960 61A 172- 332 - 52T 30K OHM +-5% 1/4W R960 61A 172- 220 - 52T 30K OHM +-5% 1/4W R960 61A 172- 332 - 52T 30K OHM +-5% 1/4W R960 61A 172- 302 - 52T 30K OHM +-5% 1/4W R966 61A 172- 302 - 52T 30K OHM +-5% 1/4W R967 61A 172- 302 - 52T 30K OHM +-5% 1/4W R968 61A 172- 244 - 52T 40K OHM +-5% 1/4W R969 61A 172- 244 - 52T 50K OHM +-5% 1/4W R969 61A 172- 244 - 52T 30K OHM +-5% 1/4W R969 61A 172- 244 - 52T 20K OHM +-5% 1/4W R969 61A 172- 244 - 52T 20K OHM +-5% 1/4W R969 61A 172- 244 - 52T 20K OHM +-5% 1/4W R969 61A 172- 243 - 52T 10K OHM +-5% 1/4W R969 61A 172- 244 - 52T 20K OHM +-5% 1/4W R977 61A 175L 154 - 52T 10K OHM +-5% 1/4W R988 61A 172- 221 - 52T 20K OHM +-5% 1/4W R988 61A 172- 221 - 52T 20K OHM +-5% 1/4W R988 61A 172- 221 - 52T 20K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 233 - 52T 22K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K OHM +-5% 1/4W R986 61A 172- 231 - 52T 10K O						
R939 R940 61A 172- 203 - 52T R940 61A 171- 393 - 52T R941 61A 172- 152 - 52T R941 61A 172- 152 - 52T R942 R942 R942 R951 R951 61A 172- 100 - 52T R951 R952 61A 172- 473 - 52T R953 61A 172- 473 - 52T R953 61A 172- 303 - 52T R956 61A 172- 303 - 52T R957 R957 R958 R958 R959 R959 R959 R959 R959 R959						
R940						
R941 61A 172- 152 - 52T 1.5K OHM +-5% 1/4W R942 61A 172- 680 - 52T 68 OHM +-5% 1/4W R951 61A 172- 100 - 52T 10 OHM +-19 1/4W R952 61A 172- 100 - 52T 10 OHM +-19 1/4W R953 61A 172- 303 - 52T 30K OHM +-5% 1/4W R956 61A 172- 122 52T 1.2K OHM +-5% 1/4W R957 61A 172- 122 52T 1.2K OHM +-5% 1/4W R958 61A 172- 102 - 52T 1.4K OHM +-5% 1/4W R959 61A 172- 333 - 52T 30K OHM +-5% 1/4W R959 61A 172- 333 - 52T 30K OHM +-5% 1/4W R960 61A 172- 333 - 52T 30K OHM +-5% 1/4W R962 61A 172- 333 - 52T 30K OHM +-5% 1/4W R963 61A 172- 220 - 52T 47K OHM +-5% 1/4W R966 61A 172- 220 - 52T 20 OHM +-5% 1/4W R967 61A 172- 302 - 52T 30K OHM +-5% 1/4W R968 61A 172- 302 - 52T 30K OHM +-5% 1/4W R969 61A 172- 302 - 52T 30K OHM +-5% 1/4W R968 61A 172- 244 - 52T 30K OHM +-5% 1/4W R969 61A 172- 244 - 52T 30K OHM +-5% 1/4W R972 61A 172- 133 - 52T 1.3K OHM +-5% 1/4W R972 61A 172- 183 - 52T 240K OHM +-5% 1/4W R977 61A 175L 154 - 52T 18K OHM +-5% 1/4W R980 61A 172- 221 - 52T 18K OHM +-5% 1/4W R988 61A 172- 221 - 52T 20 OHM +-5% 1/4W R988 61A 172- 221 - 52T 20 OHM +-5% 1/4W R988 61A 172- 221 - 52T 20 OHM +-5% 1/4W R988 61A 172- 221 - 52T 220 OHM +-5% 1/4W R988 61A 172- 223 - 52T 39 OHM +-5% 1/4W R996 61A 602- 393 - 52T 39 OHM +-5% 1/4W R996 61A 602-						
R942 R951 G1A 172- 680 - 52T R951 G1A 172- 100 - 52T R952 G1A 172- 173 - 52T R952 G1A 172- 173 - 52T R953 G1A 172- 173 - 52T R953 G1A 172- 303 - 52T R956 G1A 172- 122 - 52T R957 G1A 172- 122 - 52T R957 G1A 172- 122 - 52T R958 G1A 172- 102 - 52T R958 G1A 172- 102 - 52T R959 G1A 172- 303 - 52T R958 G1A 172- 102 - 52T R959 G1A 172- 102 - 52T R859 G1A 172- 303 - 52T R858 R959 G1A 172- 102 - 52T R859 R959 G1A 172- 303 - 52T R859 R960 G1A 172- 303 - 52T R859 R966 G1A 172- 200 - 52T R859 R966 G1A 172- 302 - 52T R859 R967 R968 G1A 172- 302 - 52T R859 R968 G1A 172- 302 - 52T R859 R968 G1A 172- 244 - 52T R859 R969 G1A 172- 753 - 52T R850 CHM +-5% 1/4W R877 R872 R872 R874 R877 R880 R877 R881 R896 R896 R896 R896 R896 R896 R896 R896						
R951 61A 172- 100 - 52T 10 OHM +-1% 1/4W R952 61A 172- 473 - 52T 47K OHM +-1% 1/4W R953 61A 172- 303 - 52T 30K OHM +-5% 1/4W R956 61A 172- 122 - 52T 1.2K OHM +5% 1/4W R957 61A 172- 473 - 52T 47K OHM +-5% 1/4W R958 61A 172- 102 - 52T 1.2K OHM +-5% 1/4W R959 61A 172- 333 - 52T 33K OHM +-5% 1/4W R960 61A 172- 473 - 52T 1K OHM +-5% 1/4W R960 61A 172- 473 - 52T 47K OHM +-5% 1/4W R960 61A 172- 20 - 52T 1K OHM +-5% 1/4W R966 61A 172- 220 - 52T 22 OHM +-5% 1/4W R968 61A 172- 302 - 52T 22 OHM +-5% 1/4W R969 61A 172- 302 - 52T 3K OHM +-5% 1/4W R969 61A 172- 132 - 52T 13K OHM +-5% 1/4W R969 61A 172- 244 - 52T 240K OHM +5% 1/4W R972 61A 172- 183 - 52T 13K OHM +5% 1/4W R972 61A 172- 183 - 52T 18K OHM +5% 1/4W R977 61A 175L 154 - 52T 240K OHM +5% 1/4W R988 61A 172- 221 - 52T 220 OHM +5% 1/4W R986 61A 172- 221 - 52T 220 OHM +5% 1/4W R988 61A 172- 221 - 52T 220 OHM +5% 1/4W R988 61A 172- 223 - 52T 10MEG OHM +5% 1/4W R988 61A 172- 223 - 52T 220 OHM +5% 1/4W R988 61A 172- 223 - 52T 22K OHM +5% 1/4W R988 61A 172- 223 - 52T 220 OHM +5% 1/4W R996 61A 602- 393 - 52T 39 OHM +5% 1/4W R998 704 61A 602- 393 - 52T 39 OHM +5% 1/6W R996 61A 602- 393 - 52T 39 OHM +5% 1/6W R996 61A 602- 393 - 52T 39 OHM +5% 1/6W R996 704 93A 39- 515 - 52T 72X3V2A ZD400 93A 39- 515 - 52T 72X3V2D ZD701 93A 39- 515 - 52T 72X3V2D ZD702 93A 39- 55T - 52T 70.5W ZD BZX55C30	\					
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R980 61A 172- 221 - 52T 220 OHM +-5% 1/4W R986 61A 172- 106 - 52T 10MEG OHM +-5% 1/4W R988 61A 172- 223 - 52T 22K OHM +-5% 1/4W R995 61A 602- 393 - 52T 39 OHM +-5% 1/6W R996 61A 602- 103 - 52T 10K OHM +-5% 1/6W ZD108 95A 90- 23 TIN COATED ZD110 93A 39- 54 - 52T 2ENER 5.6V ZD403 93A 39- 54 - 52T 12.7V DIODE 1/2W ZD404 95A 90- 23 TIN COATED ZD420 93A 39- 518 - 52T TZX20B ZD701 93A 39- 518 - 52T TZX8V2A ZD702 93A 39- 515 - 52T TZX3VDC ZD902 93A 39- 55T - 52T 0.5W ZD BZX55C30		R972	61A 172-	183 -	52T	18K OHM +-5% 1/4W
R986 61A 172- 106 - 52T 10MEG OHM +-5% 1/4W R988 61A 172- 223 - 52T 22K OHM +-5% 1/4W R995 61A 602- 393 - 52T 39 OHM +-5% 1/6W R996 61A 602- 103 - 52T 10K OHM +-5% 1/6W ZD108 95A 90- 23 TIN COATED ZD110 93A 39- 73 - 52T ZENER 5.6V ZD403 93A 39- 54 - 52T 12.7V DIODE 1/2W ZD404 95A 90- 23 TIN COATED ZD420 93A 39- 522 - 52T TZX20B ZD701 93A 39- 518 - 52T TZX8V2A ZD702 93A 39- 515 - 52T TZX3VDC ZD902 93A 39- 55T - 52T 0.5W ZD BZX55C30		R977	61A 175L	154 -	52T	150K OHM +-5% 1/2W
R988 61A 172- 223 - 52T 22K OHM +-5% 1/4W R995 61A 602- 393 - 52T 39 OHM +-5% 1/6W R996 61A 602- 103 - 52T 10K OHM +-5% 1/6W ZD108 95A 90- 23 TIN COATED ZD110 93A 39- 73 - 52T ZENER 5.6V ZD403 93A 39- 54 - 52T 12.7V DIODE 1/2W ZD404 95A 90- 23 TIN COATED ZD420 93A 39- 522 - 52T TZX20B ZD701 93A 39- 518 - 52T TZX8V2A ZD702 93A 39- 515 - 52T TZX3VDC ZD902 93A 39- 55T - 52T 0.5W ZD BZX55C30		R980	61A 172-	221 -	52T	220 OHM +-5% 1/4W
R995 61A 602- 393 - 52T 39 OHM +-5% 1/6W R996 61A 602- 103 - 52T 10K OHM +-5% 1/6W ZD108 95A 90- 23 TIN COATED ZD110 93A 39- 73 - 52T ZENER 5.6V ZD403 93A 39- 54 - 52T 12.7V DIODE 1/2W ZD404 95A 90- 23 TIN COATED ZD420 93A 39- 522 - 52T TZX20B ZD701 93A 39- 518 - 52T TZX8V2A ZD702 93A 39- 515 - 52T TZX3VDC ZD902 93A 39- 55T - 52T 0.5W ZD BZX55C30		R986	61A 172-		52T	10MEG OHM +-5% 1/4W
R996 61A 602- 103 - 52T 10K OHM +-5% 1/6W ZD108 95A 90- 23 TIN COATED ZD110 93A 39- 73 - 52T ZENER 5.6V ZD403 93A 39- 54 - 52T 12.7V DIODE 1/2W ZD404 95A 90- 23 TIN COATED ZD420 93A 39- 522 - 52T TZX20B ZD701 93A 39- 518 - 52T TZX8V2A ZD702 93A 39- 515 - 52T TZX3VDC ZD902 93A 39- 55T - 52T 0.5W ZD BZX55C30		R988	61A 172-	223 -	52T	22K OHM +-5% 1/4W
ZD108 95A 90- 23 TIN COATED ZD110 93A 39- 73- 52T ZENER 5.6V ZD403 93A 39- 54- 52T 12.7V DIODE 1/2W ZD404 95A 90- 23 TIN COATED ZD420 93A 39- 522- 52T TZX20B ZD701 93A 39- 518- 52T TZX8V2A ZD702 93A 39- 515- 52T TZX3VDC ZD902 93A 39- 55T- 52T 0.5W ZD BZX55C30		R995	61A 602-	393 -	52T	39 OHM +-5% 1/6W
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ZD902 93A 39- 55T - 52T 0.5W ZD BZX55C30						
ZD905 95A 59- 124 - 52T ZD 18-2						
		ZD903	93A 39-	124 -	521	ZD 18-2

PARTS LIST OF CRT PC BOARD

LOCATION	CRPC356P		SPECIFICATION
	87A 3503- 500		CRT SOCKET
	40A 581- 26 -	605	LABEL
	705A 556P- R56 -	01	IC802 ASS'Y
C812	67A 305- 102 -	3	1000uF +-20% 16V
C835	65A 2Z- 103 -	4B	0.01UF +80% -20% 2K Z5V
C836	65A 1K- 221 -	5A	220PF +-10% Y5P 1KV
C837	67A 305- 470 -	10	47uF +-20% 160V
C861	65A 517M- 103 -	3A	0.01uF/500V +-20% Z5U
IC801	56A 539- 2		LM1279N
P801	33A 3278- 11A		11P PLUG B11B-XHA/JS
P802	33A 3278- 9		9P PLUG
P803	33A 3278- 6		6P PLUG
R807	61A 208- 390 -	64	39 OHM +-5% 1W
R859	61A 152M- 101 -	64	100 OHM 5% 2W
VR801	75A 334- 222		2.2K OHM 30%
VR802	75A 334- 222		2.2K OHM 30%
VR803	75A 334- 303		30K OHM 30%
VR804	75A 334- 303		30K OHM 30%
VR805	75A 334- 303		30K OHM 30%

PARTS LIST OF CRT AUTO INS. PC BOARD

LOCATION	CRP356PAI			SPECIFICATION
	715A 69	04- B		CRT BOARD
C801	67A 30	05- 100 -	7T	10uF +-20% 50V
C802	67A 30	05- 100 -	7T	10uF +-20% 50V
C803	67A 30	05- 100 -	7T	10uF +-20% 50V
C804	65A 45	50- 104 -	7T	0.1uF +80% -20% Y5V 50V
C805	65A 45	50- 104 -	7T	0.1uF +80% -20% Y5V 50V
C806	65A 45	50- 104 -	7T	0.1uF +80% -20% Y5V 50V
C807	67A 30	9- 100 -	7T	10uF +-20% 50V
C808	67A 30	9- 470 -	3T	47uF +-20% 16V
C809	65A 45	50- 104 -	7T	0.1uF +80% -20% Y5V 50V
C810	67A 30	05- 470 -	7T	47uF +-20% 50V
C811	65A 45	50- 104 -	7T	0.1uF +80% -20% Y5V 50V
C813	65A 45	50- 104 -	7T	0.1uF +80% -20% Y5V 50V
C814	65A 45	50- 104 -	7T	0.1uF +80% -20% Y5V 50V
C815	65A 45	50- 104 -	7T	0.1uF +80% -20% Y5V 50V
C816	65A 45	50- 104 -	7T	0.1uF +80% -20% Y5V 50V
C818	67A 30	05- 470 -	7T	47uF +-20% 50V
C819	65A 45	50- 104 -	7T	0.1uF +80% -20% Y5V 50V
C820	64A 44	4J- 104 -	1AT	0.1uF +-5% 100V
C828	67A 7	'0- 478 -	9T	0.47Uf 100V NP
C829	67A 7	'0- 478 -	9T	0.47Uf 100V NP
C830	67A 7	'0- 478 -	9T	0.47Uf 100V NP
C831	64A 44	4J- 104 -	1AT	0.1uF +-5% 100V
C832	64A 44	4J- 104 -	1AT	0.1uF +-5% 100V
C833	64A 44	4J- 104 -	1AT	0.1uF +-5% 100V
C834	64A 46	6J- 104 -	1AT	0.1uF +-5% 100V
C838	65A 44	4- 102 -	13T	1000PF +-10% Z5P 50V
C840	65A 517	K- 102 -	3T	1000PF +-10% Z5U 500V
C841	65A 517	K- 102 -	3T	1000PF +-10% Z5U 500V
C842	65A 517	K- 102 -	3T	1000PF +-10% Z5U 500V

LOCATION	CRI	P356PA1	Ī		SPECIFICATION
D801	93A	64-	11H -	52T	DIODE IN4148
D802	93A	64-	11H -	52T	DIODE IN4148
D803	93A	64-	11H -	52T	DIODE IN4148
D804	93A	64-	11H -	52T	DIODE IN4148
D805	93A	64-	11H -	52T	DIODE IN4148
D806	93A	64-	11H -	52T	DIODE IN4148
D807	93A	64-	11H -	52T	DIODE IN4148
D808	93A	64-	19G -	52T	FAST RECOVERY DIODE
D809	93A	64-	19G -	52T	FAST RECOVERY DIODE
D810 D811	93A 93A	64- 64-	19G - 19G -	52T 52T	FAST RECOVERY DIODE FAST RECOVERY DIODE
D812	93A	64-	19G -	52T	FAST RECOVERY DIODE
D813	93A	64-	19G -	52T	FAST RECOVERY DIODE
D814	93A	64-	19G -	52T	FAST RECOVERY DIODE
D815	93A	64-	19G -	52T	FAST RECOVERY DIODE
D816	93A	64-	19G -	52T	FAST RECOVERY DIODE
D817	93A	52-	1T -	52T	1A 600V IN4005
FB801	95A	90-	23		TIN COATED
FB802	95A	90-	23		TIN COATED
FB803	95A	90-	23		TIN COATED
J801	95A	90-	23		TIN COATED
J802 J803	95A 95A	90- 90-	23 23		TIN COATED TIN COATED
J804	95A 95A	90- 90-	23		TIN COATED
J805	95A	90-	23		TIN COATED
J806	95A	90-	23		TIN COATED
J807	95A	90-	23		TIN COATED
J808	95A	90-	23		TIN COATED
J809	95A	90-	23		TIN COATED
J810	95A	90-	23		TIN COATED
L801	73A	54-	479 -	5T	PEAKING COIL 4.7uF 5%
L805	73A	54-	478 -	10T	PEAKING COIL
L806	73A	54-	478 -	10T	PEAKING COIL
L807	73A	54-	478 -	10T	PEAKING COIL
L808 Q813	73A 57A	54- 419-	479 - SG -	5T T	PEAKING COIL 4.7uF 5% TR. KSC945GC
Q814	57A	742-	1 -	T	TR. RSC943GC TR. 2SC1730
R801	61A	602-	750 -	52T	75 OHM +-5% 1/6W
R802	61A	602-	750 -	52T	75 OHM +-5% 1/6W
R803	61A	602-	750 -	52T	75 OHM +-5% 1/6W
R804	61A	602-	300 -	52T	30 OHM +-5% 1/6W
R805	61A	602-	300 -	52T	30 OHM +-5% 1/6W
R806	61A	602-	300 -	52T	30 OHM +-5% 1/6W
R808	61A	602-	103 -	52T	10K OHM +-5% 1/6W
R809	61A	172-	225 -	52T	2.2MEG OHM +-5% 1/4W
R810	61A	602-	101 -	52T	100 OHM +-5% 1/6W
R811 R812	61A 61A	602- 602-	332 - 132 -	52T 52T	3.3K OHM +-5% 1/6W 1.3K OHM +-5% 1/6W
R813	61A	602-	332 -	52T	3.3K OHM +-5% 1/6W
R814	61A	602-	332 -	52T	3.3K OHM +-5% 1/6W
R815	61A	602-	391 -	52T	390 OHM +-5% 1/6W
R816	61A	602-	391 -	52T	390 OHM +-5% 1/6W
R817	61A	602-	391 -	52T	390 OHM +-5% 1/6W
R818	61A	602-	100 -	52T	10 OHM +-5% 1/6W
R819	61A	602-	100 -	52T	10 OHM +-5% 1/6W
R820	61A	602-	100 -	52T	10 OHM +-5% 1/6W
R821	95A	90-	23	FOR	TIN COATED
R823	61A	602-	910 -	52T	91 OHM +-5% 1/6W
R824	61A	602-	910 - 910	52T	91 OHM + 5% 1/6W
R825 R826	61A 95A	602- 90-	910 - 23	52T	91 OHM +-5% 1/6W TIN COATED
R840	61A	90- 172-	102 -	52T	1K OHM +-5% 1/4W
R841	61A	172-	102 -	52T	1K OHM +-5% 1/4W 1K OHM +-5% 1/4W
R842	61A	172-	102 -	52T	1K OHM +-5% 1/4W
R846	61A	602-	393 -	52T	39K OHM +-5% 1/6W

LOCATION	CRP356PAI	SPECIFICATION
R847 6	51A 602- 393 - 52T	39K OHM +-5% 1/6W
R848 6	51A 602- 393 - 52T	39K OHM +-5% 1/6W
R849 6	51A 172- 105 - 52T	1MEG OHM +-5% 1/4W
R850 6	51A 172- 105 - 52T	1MEG OHM +-5% 1/4W
R851 6	51A 172- 105 - 52T	1MEG OHM +-5% 1/4W
R855 6	51A 175L- 560 - 52T	56 OHM +-5% 1/2W
R856 6	51A 175L- 560 - 52T	56 OHM +-5% 1/2W
R857 6	51A 175L- 560 - 52T	56 OHM +-5% 1/2W
R858 9	95A 90- 23	TIN COATED
R860 6	51A 172- 104 - 52T	100K OHM +-5% 1/4W
R861 6	51A 602- 822 - 52T	8.2 OHM +-5% 1/6W
R862 6	51A 602- 222 - 52T	2.2 OHM +-5% 1/6W
R863 9	95A 90- 23	TIN COATED
R864 6	51A 175L- 471 - 52T	470 OHM +-5% 1/2W
ZD801 9	93A 39- 519 - 52T	TZX8V2B

PARTS LIST OF IC802 ASS'Y

LOCATION	PARTS	No.		SPECIFICATION
	90A 355-	2		HEAT SINK
	M1A 1730-	8 -	128	SCREW
IC802	56A 551-	3		LM2439
L809	73A 54-	109 -	5T	1UH
L810	73A 54-	109 -	5T	1UH
L811	73A 54-	109 -	5T	1UH

PARTS LIST OF Q901 ASS'Y

LOCATION	PARTS	No.	SPECIFICATION		
	5A 42	- 1		NYLON WASHER	
	12A 372	- 1		SILICONE RUBBER	
	90A 339	- 2		HEAT SINK	
	M1A 1730	- 10 -	128	SCREW	
O901	57A 667	- 7		IRFBC40 I.R. MOSFET	



PARTS LIST OF Q911 ASS'Y

LOCATION	PAR	rs n	SPECIFICATION		
	5A	42-	1		NYLON WASHER
	12A	372-	1		SILICONE RUBBER
	90A	315-	1		HEAT SINK
	M1A 1	730-	8 -	128	SCREW
Q911	57A	600-	504		MOS FET IRF634A

PARTS LIST OF IC601 ASS'Y

LOCATION	PARTS I	No.		SPECIFICATION
	12A 372- 90A 348- M1A 1730-	1 3 10 -	128	SILICONE RUBBER HEAT SINK SCREW
IC601	5A 42- 56A 574-	1 1		WASHER TDA9302H

PARTS LIST OF AC LINET ASS'Y

LOCATION	PARTS I	No.		SPECIFICATION		
	87A 501-	5		RECEPTACLES 0714		
	96A 29-	6 -	190	H.S. TUBING		
CN901	95A 205S-	354 -	043	WIRE		

PARTS LIST OF Q403/Q406/D408 ASS'Y

LOCATION	PART	S No.		SPECIFICATION
	5A	42- 1		NYLON WASHER
	32A 30)28- 8		RUBBER
	90A 3	354- 503		HEAT SINK
	M1A 17	730- 8	- 128	SCREW
	M1A 17	730- 10	- 128	SCREW
D408	93A 2	220- 11	- F	DMV32B
Q403	57A 6	589- 6		2SC52967
Q406	57A 4	115- 3		TR. 2SD2025

PARTS LIST OF IC904 ASS'Y

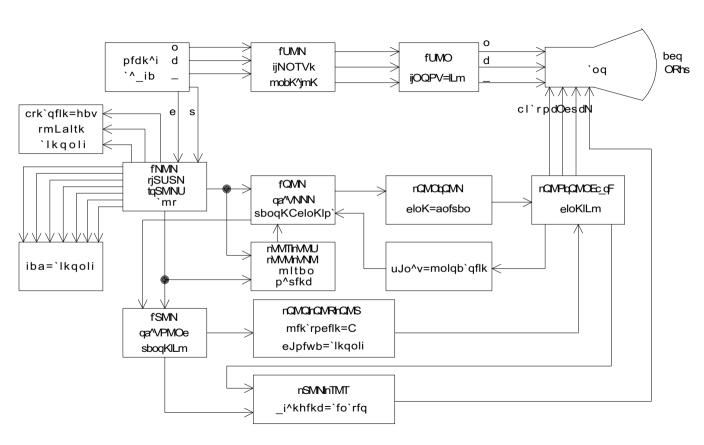
LOCATION	PARTS No).		SPECIFICATION
	90A 315-	1		HEAT SINK
	M1A 1730-	6 -	128	SCREW
IC904	56A 133-	12 -	STM	3 PIN 12V REG I 7812CV

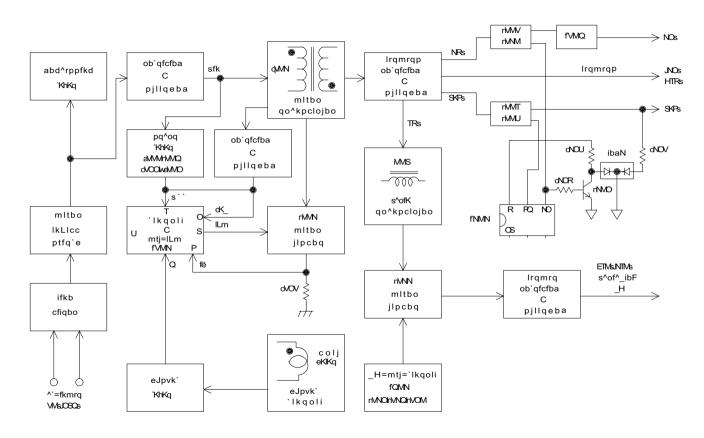
PARTS LIST OF CAB'T ASS'Y

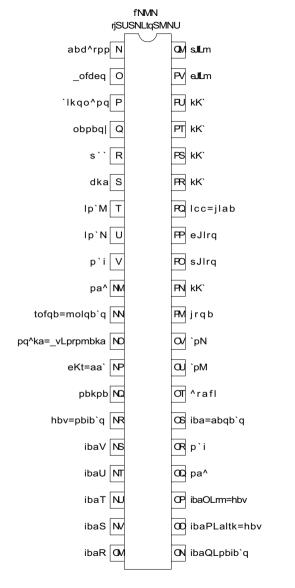
LOCATION	PARTS N	0.		SPECIFICATION
	12A 6000-	2		RUBBER FOOT
	19A 506-	3 -	1	SPRING
	33A 3686-	1		POWER BUTTON
	34A 586-	1 -	AL	SWIVEL
	34A 621-	2 -	AL	BASE
	34A 626-	1 -	3A	BACK COVER
	45A 76-	31 -	R	BASE & SWIVEL

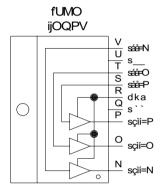
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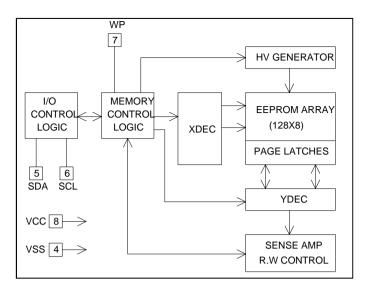
LOCATION	PARTS No.		SPECIFICATION
	5A 38- 501		WASHER
	95A 8013- 4 -	604	WIRE & HOUSING ASS'Y
SP501	78A 216- 23 -	5C	2W 16 OHM
SP502	78A 216- 23 -	5C	2W 16 OHM



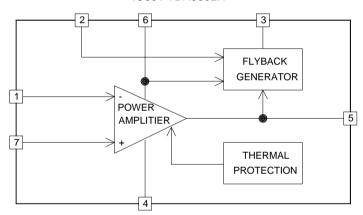








IC601 TDA9302H



IC901 3842

